

FIG. 1

MONTH OF FLOW PROCESS

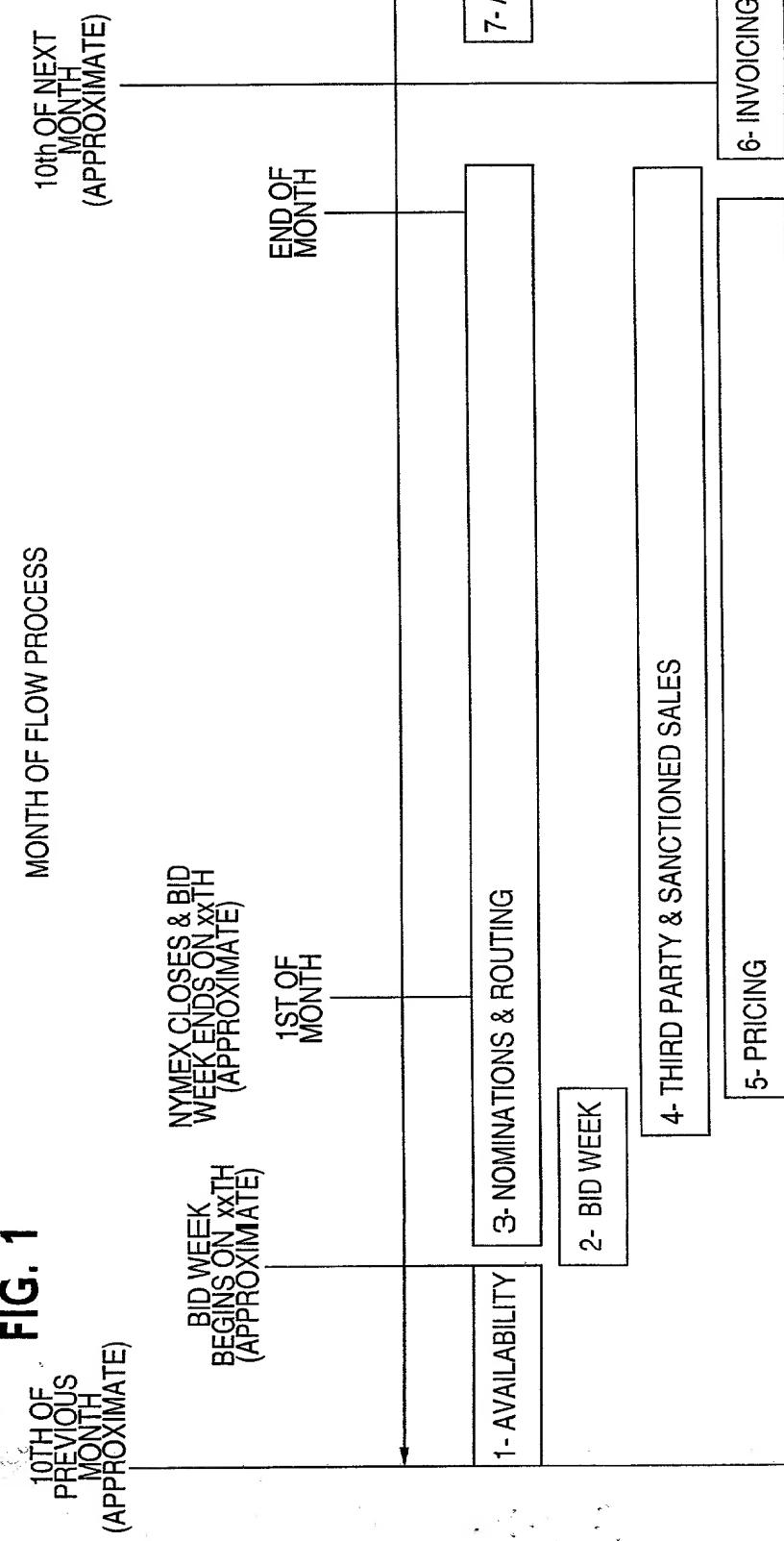


FIG. 2

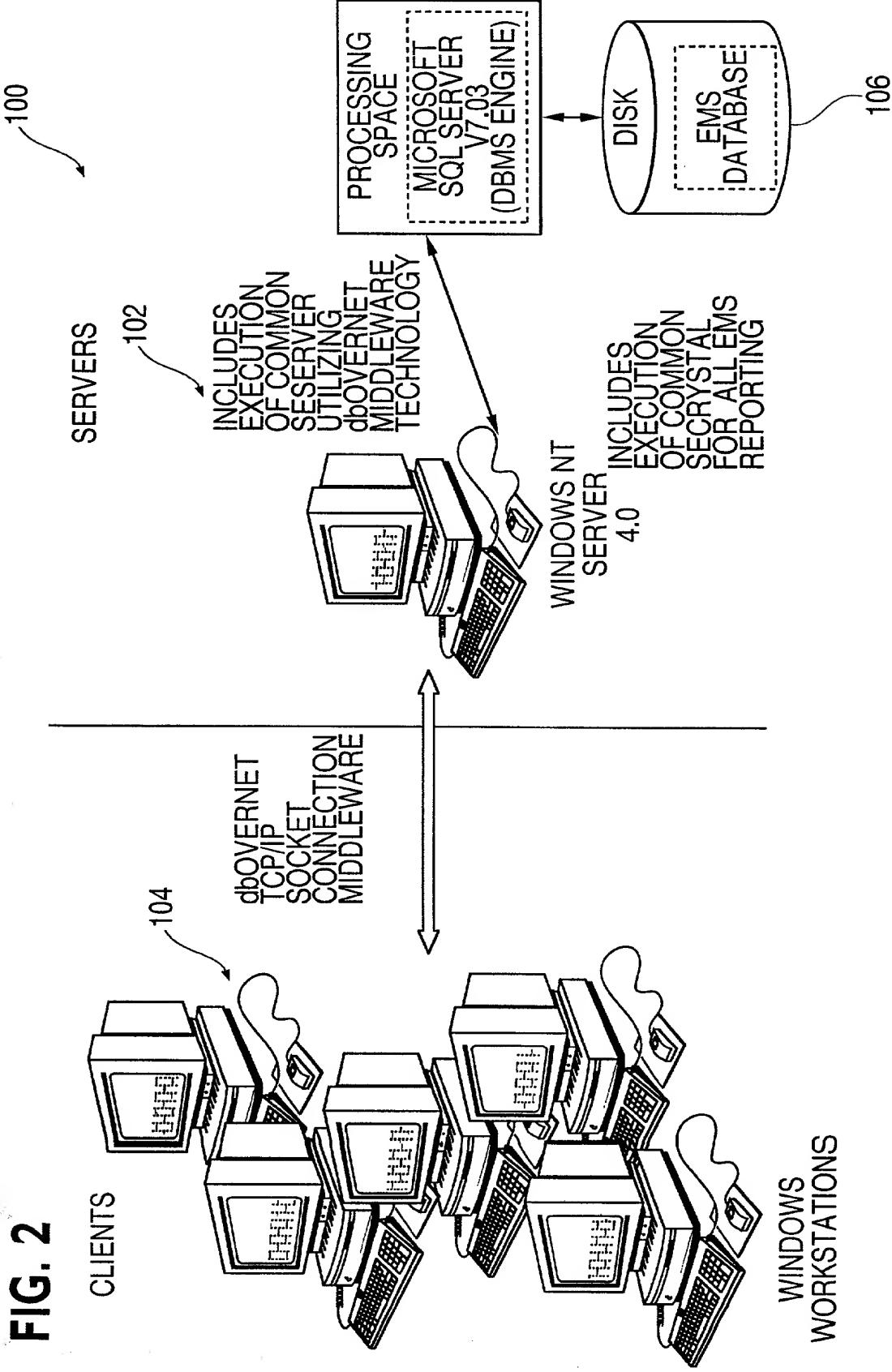
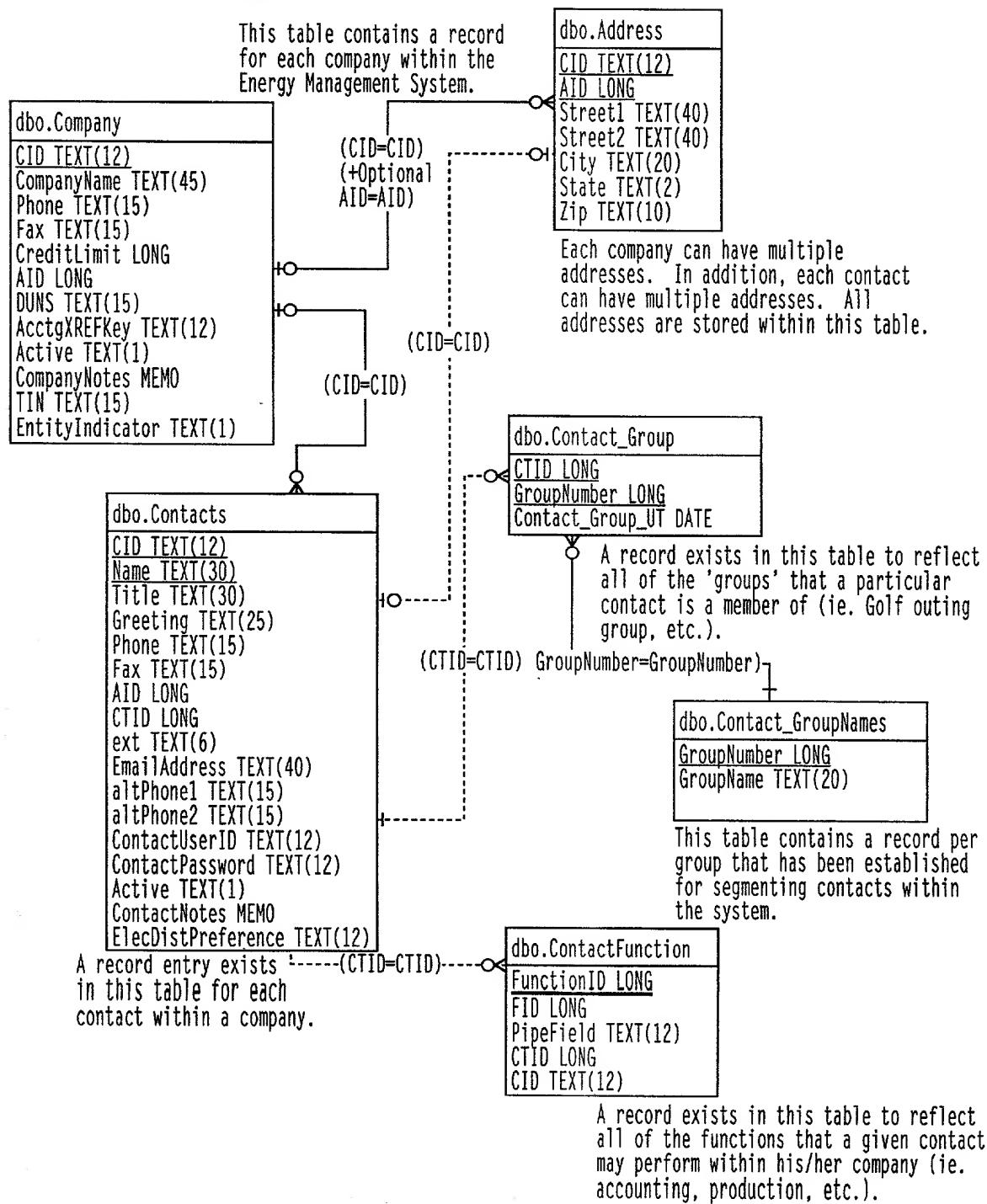


FIG. 3A

Companies Subject Area (ERD)



Companies Subject Area (ERD)

FIG. 3B

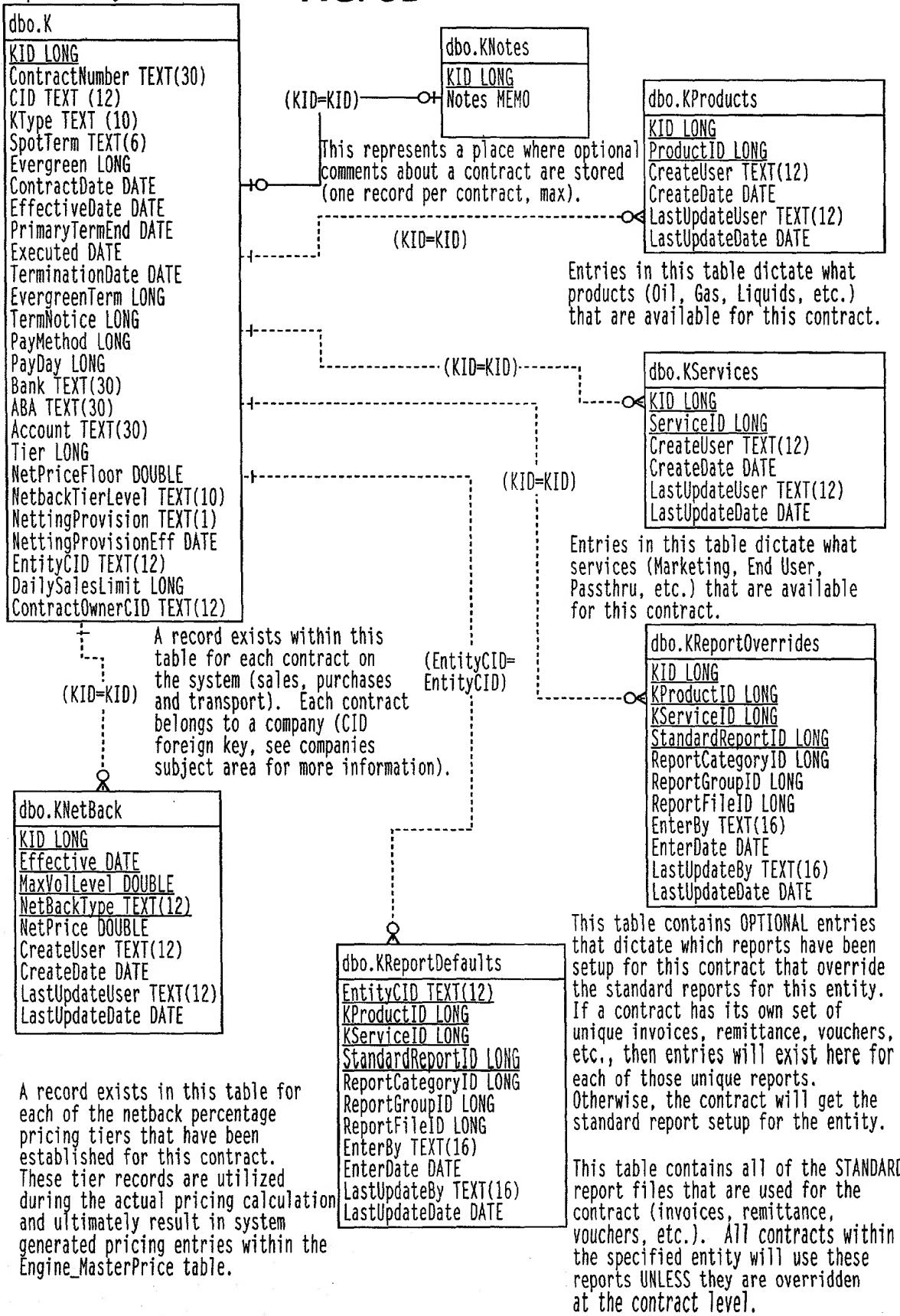


FIG. 3C

Deals Subject Area (ERD) (1 of 2)

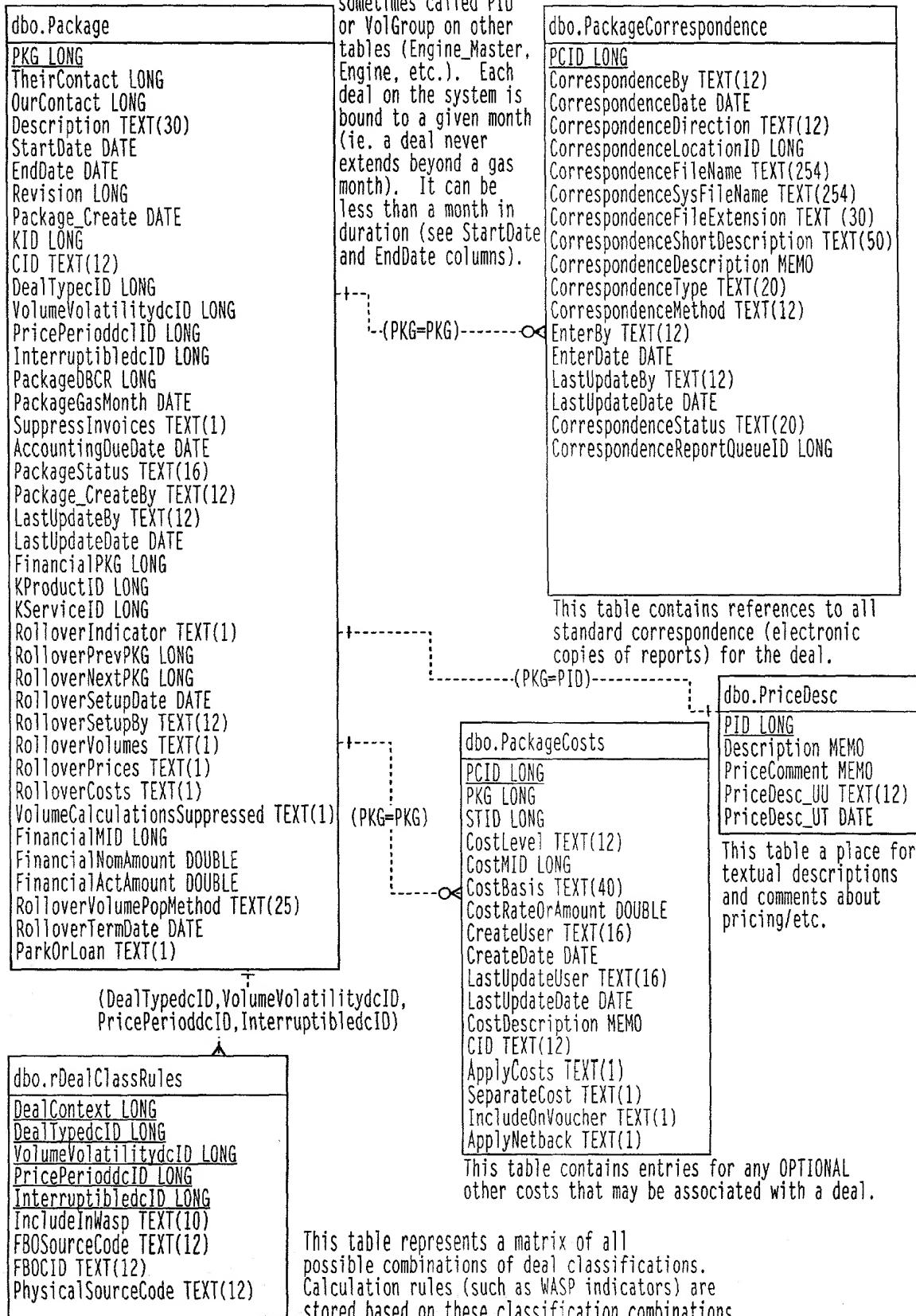


FIG. 3D

Deals Subject Area (ERD) (2 of 2)

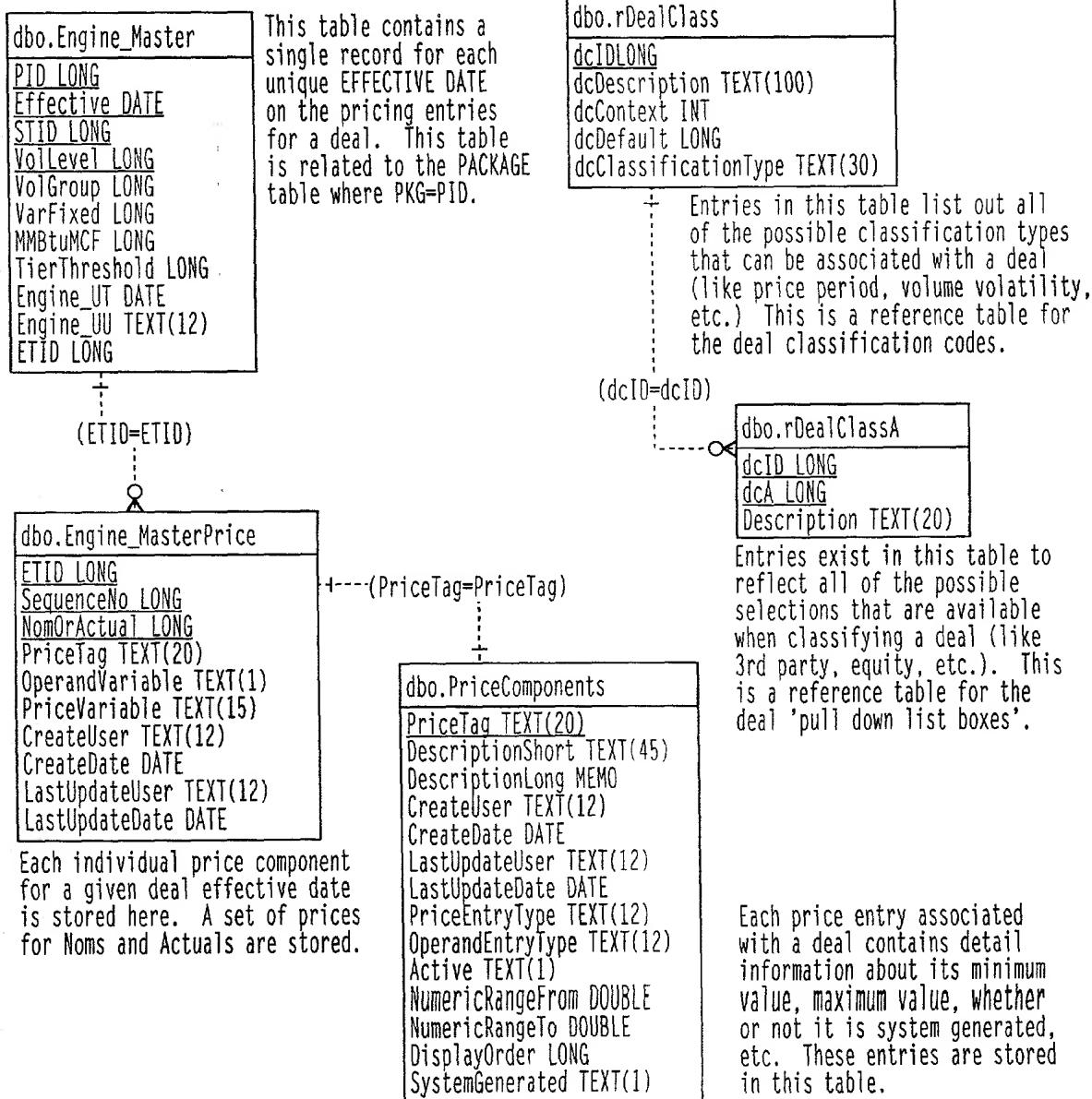
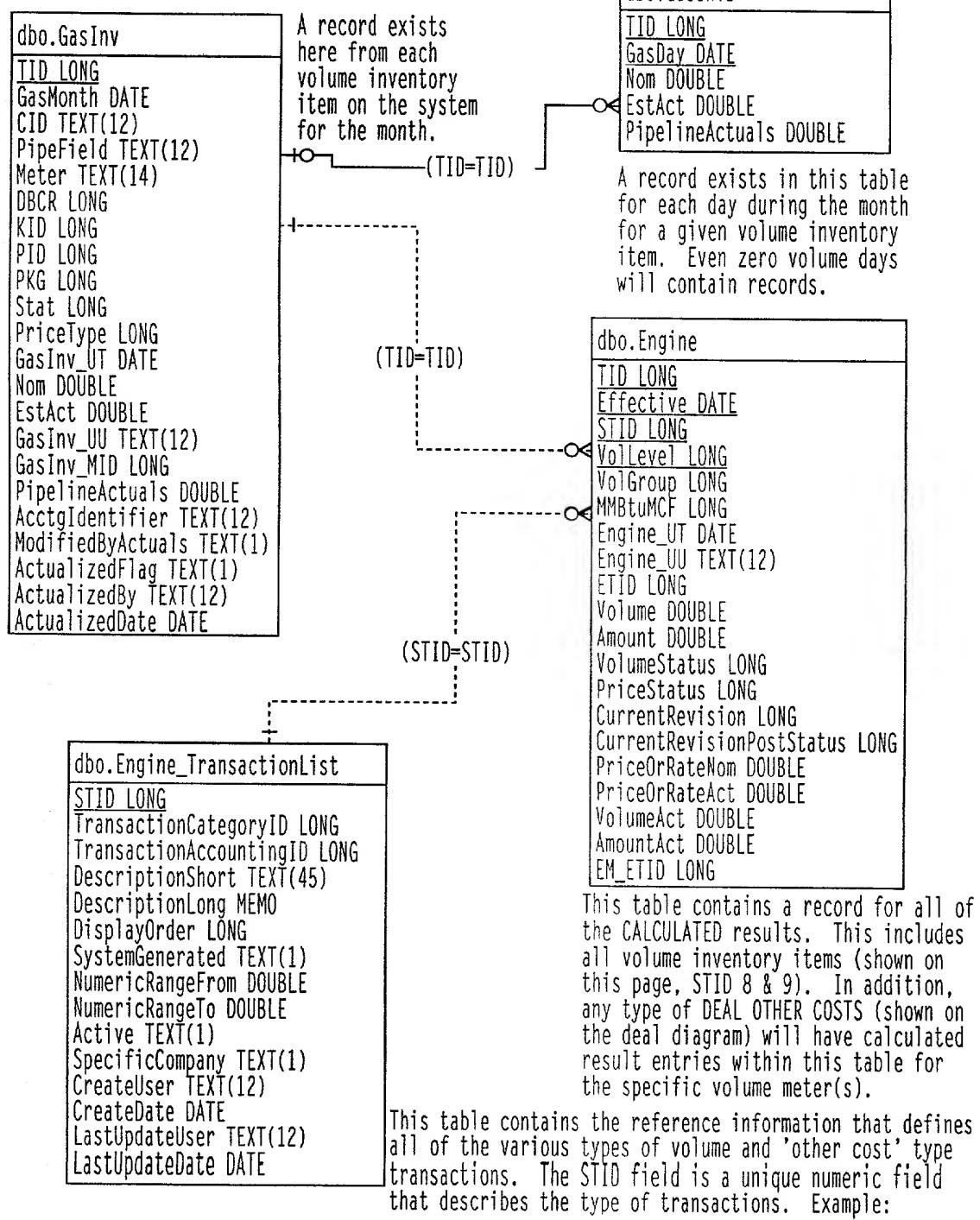


FIG. 3E

Gas Inventory Subject Area (ERD) (1 of 2)



8 = Volume Purchases
 9 = Volume Sales
 etc...

Rules for the population and entry of these types of costs are defined here. The 'Other Cost' information setup for a deal also utilizes this information.

FIG. 3F

Gas Inventory Subject Area (ERD) (2 of 2)

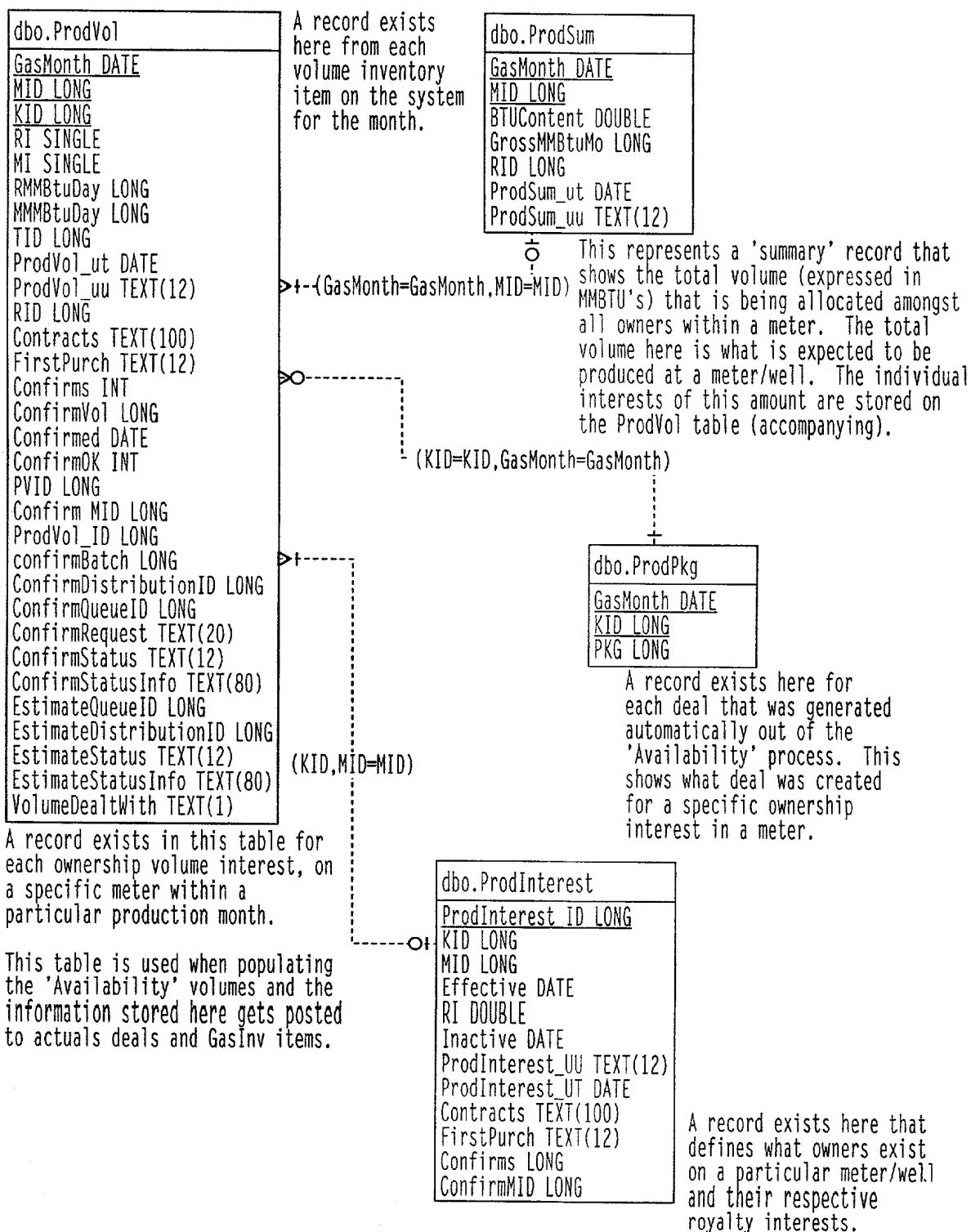


FIG. 3G

Operational Subject Area - 1 of 4 (ERD)

dbo.PrinterDef
PrinterNumber LONG
DisplayName TEXT(80)
ServerPrinterName TEXT(80)
InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ApplicationMessages
ApplicationMessageID LONG
ApplicationMessageDate DATE
ApplicationMessageText TEXT(255)

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here).

dbo.ExceptionCategories
ExceptionType TEXT(12)
ExceptionNo LONG
ExceptionShort TEXT(45)
ExceptionLong MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
ExceptionOrder LONG

+ This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Deal', 'Pricing', etc.).
- (ExceptionType=ExceptionType, -- ExceptionNo=ExceptionNo)

dbo.LogTable
LogEntry LONG
LogDate TIME DATE
LogInfo TEXT(254)

This table is used primarily for debugging purposes and is not utilized by any screen or reporting process.

dbo.ExceptionList
ExceptionListID LONG
ExceptionType TEXT(12)
ExceptionKey LONG
ExceptionDate DATE
ExceptionSequence LONG
ExceptionEvent TEXT(45)
ExceptionNo LONG
ExceptionBy TEXT(12)
ExceptionComments MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table contains the actual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (ie., PKGID would be the key for ExceptionType ='DEAL').

dbo.rGasMonth
GasMonth DATE
CurrentStatus TEXT(20)
CurrentSequence LONG
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
LockedUser TEXT(12)
LockedDate DATE

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', etc.).

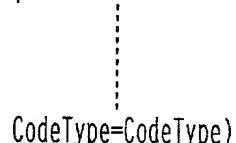
dbo.rGasMonthStatus
GasMonth DATE
CurrentSequence LONG
Status TEXT(20)
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

FIG. 3H

Operational Subject Area - 2 of 4 (ERD)

dbo.SEProcessingCodeTypes
CodeType TEXT(10)
ShortDescription TEXT(50)
Description MEMO
UserConfigurable TEXT(1)
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE



dbo.SEProcessingCodes
ProcessingCodeID LONG
CodeType TEXT(10)
ShortDescription TEXT(50)
Description MEMO
Required TEXT(1)
TypeLimit LONG
ValueMask TEXT(254)
DisplayOrder LONG
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE
Description1 MEMO

This table contains a processing code 'type' field for all of the various reference fields on the database. For example, a CodeType of 'CONTRPRDS' represents the contract products type. All SEProcessingCodes with this type represent the available contract products.

dbo.SELocations
LocationID LONG
LocationUNCPath TEXT(254)
LocationName TEXT(30)
LocationDescription MEMO
LocationAutoCompress TEXT(1)
LocationOrder LONG
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE

This table contains record entries for all of the locations (server paths) that are used within the system.

dbo.SEAudit
AuditID LONG
AuditSys TEXT(30)
AuditEvent TEXT(30)
AuditBy TEXT(16)
AuditDateTime DATE
AuditText TEXT(255)

This table contains record entries for auditable events that are captured within the system. Reports are written to review this information. An example is the 'Login' attempts and/or the actualization attempts (by pipefield).

dbo.SEMessages
MessagesSubsystem TEXT(10)
MessagesID LONG
MessagesType TEXT(10)
MessageDescription MEMO
EnterBy TEXT(16)
EnterDate DATE
LastUpdateBy TEXT(16)
LastUpdateDate DATE

This table contains record entries for all of the application messages (error, confirmational, informational, etc.).

dbo.SEImages
ImageType TEXT(12)
ImageKey TEXT(16)
ImageScreen MEMO
ImageReport MEMO
ImageShortDescription TEXT(60)
ImageDescription MEMO
CreateDate DATE
CreateUser TEXT(16)
LastUpdateDate DATE
LastUpdateUser TEXT(16)

This table contains record entries for all standard system graphic images. Letterhead logos, screen graphic logos, etc.

FIG. 3I

Operational Subject Area - 3 of 4 (ERD)

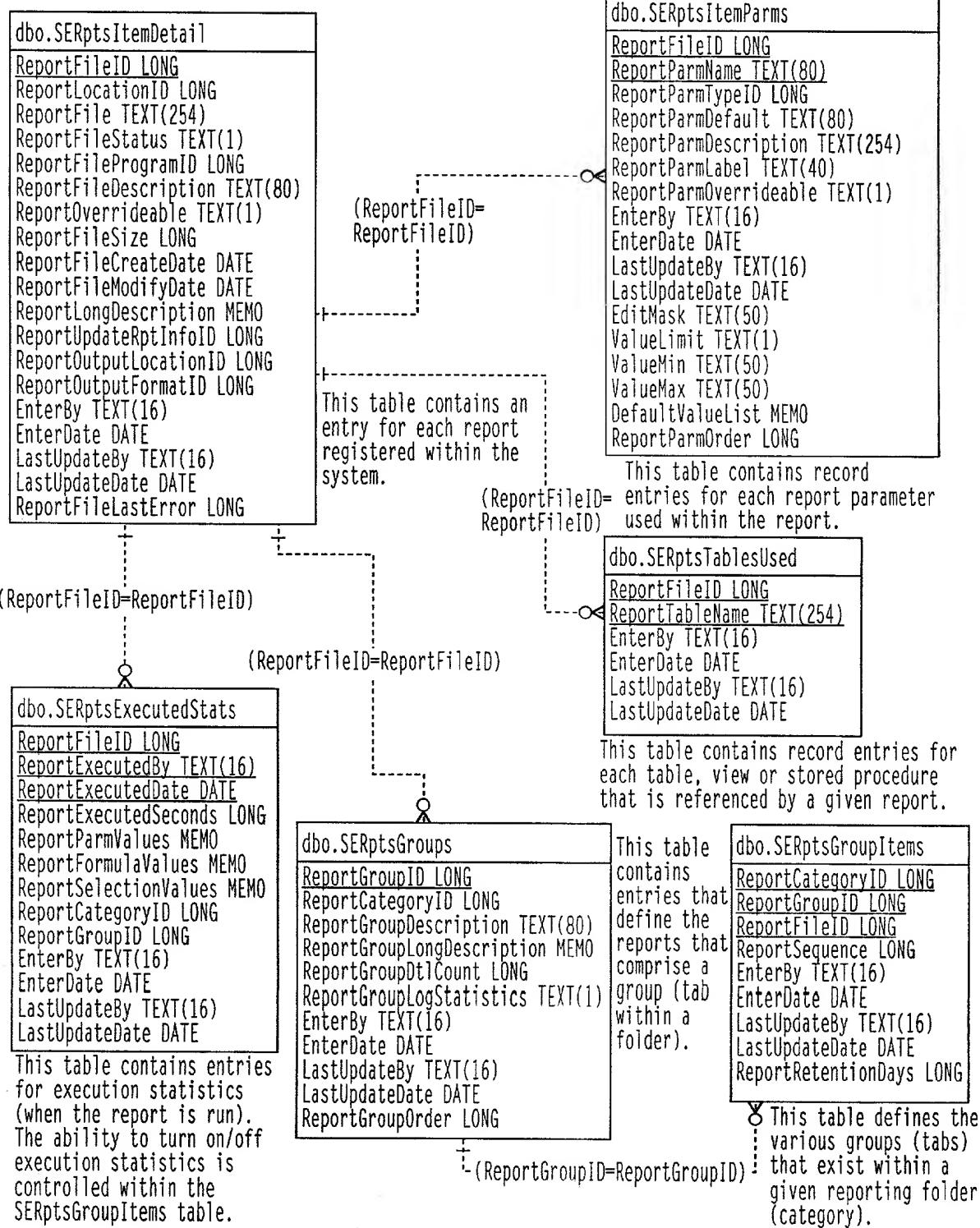


FIG. 3J

Operational Subject Area - 4 of 4 (ERD)

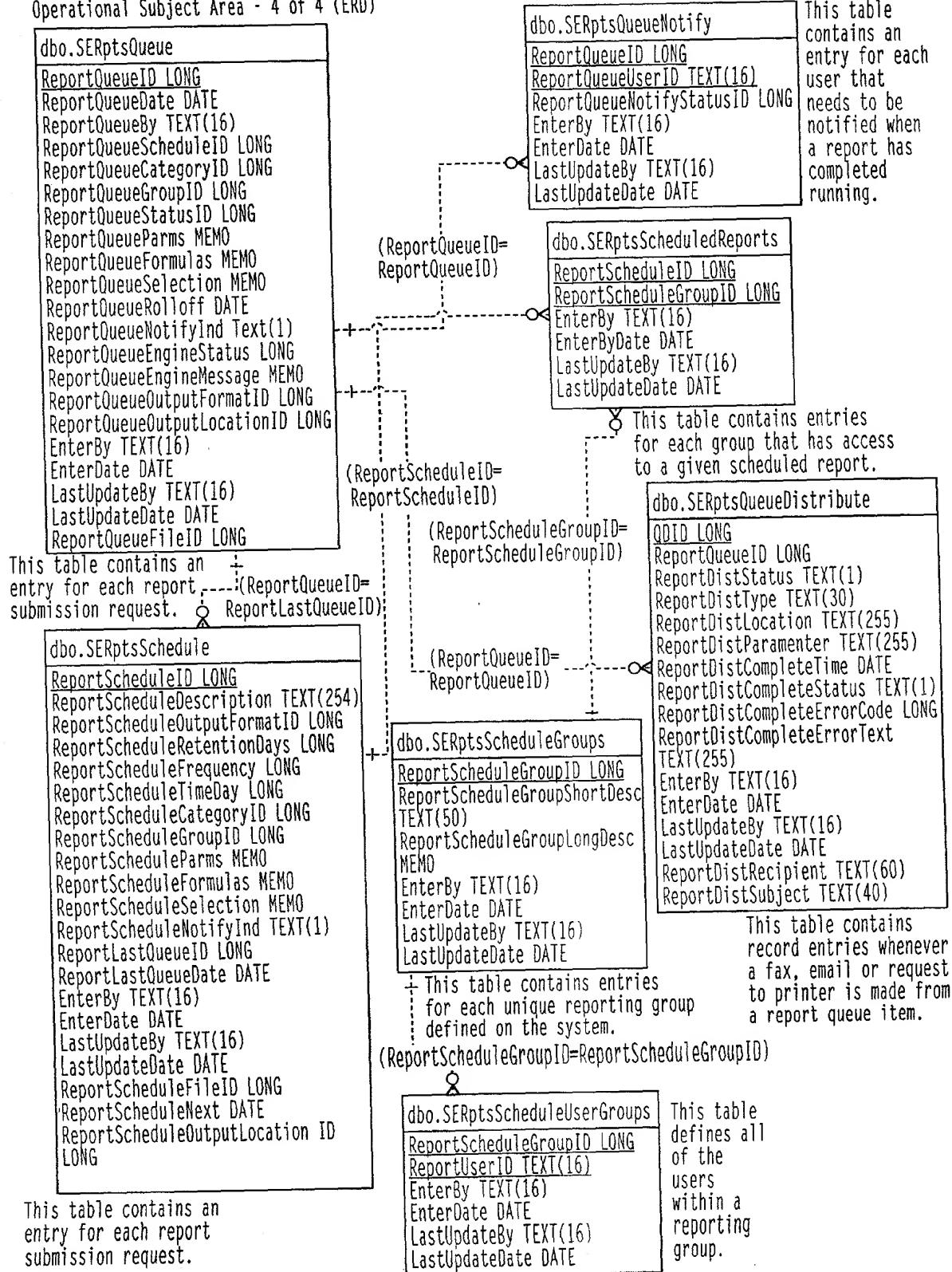


FIG. 3K

Pipes & Meters Subject Area (ERD)

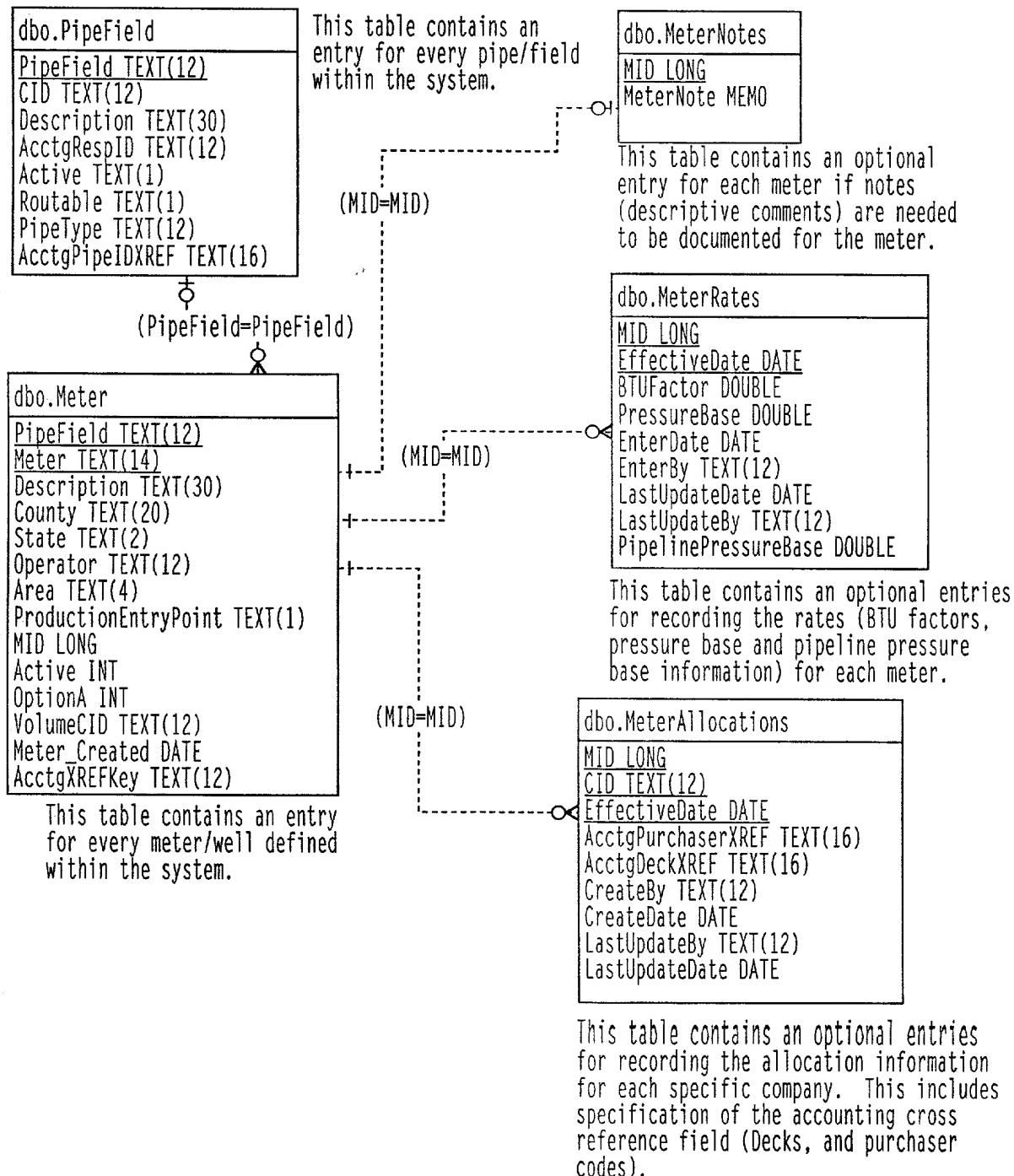


FIG. 3L

Pricing Subject Area (ERD)

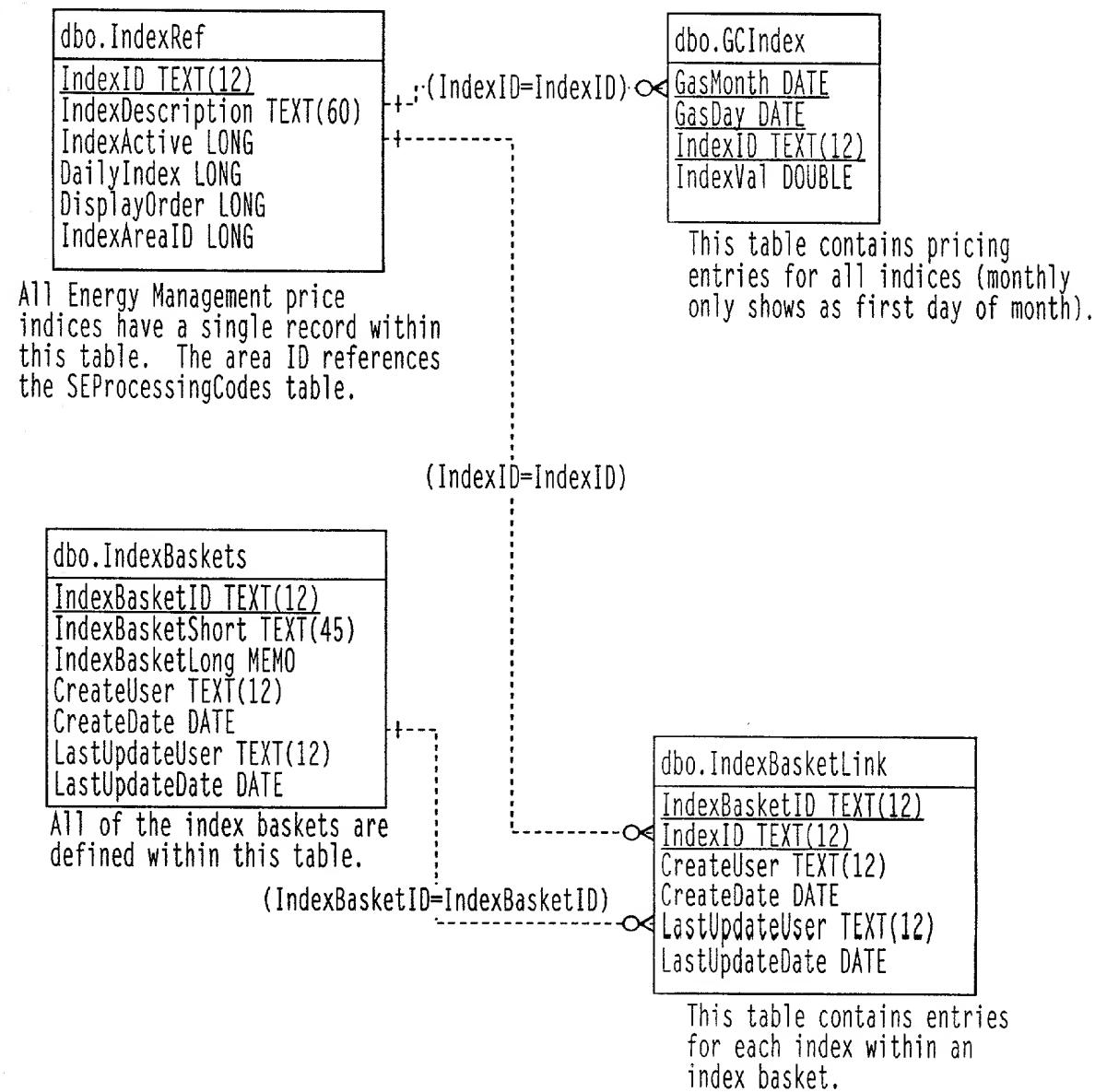


FIG. 3M

Routing Subject Area (ERD)

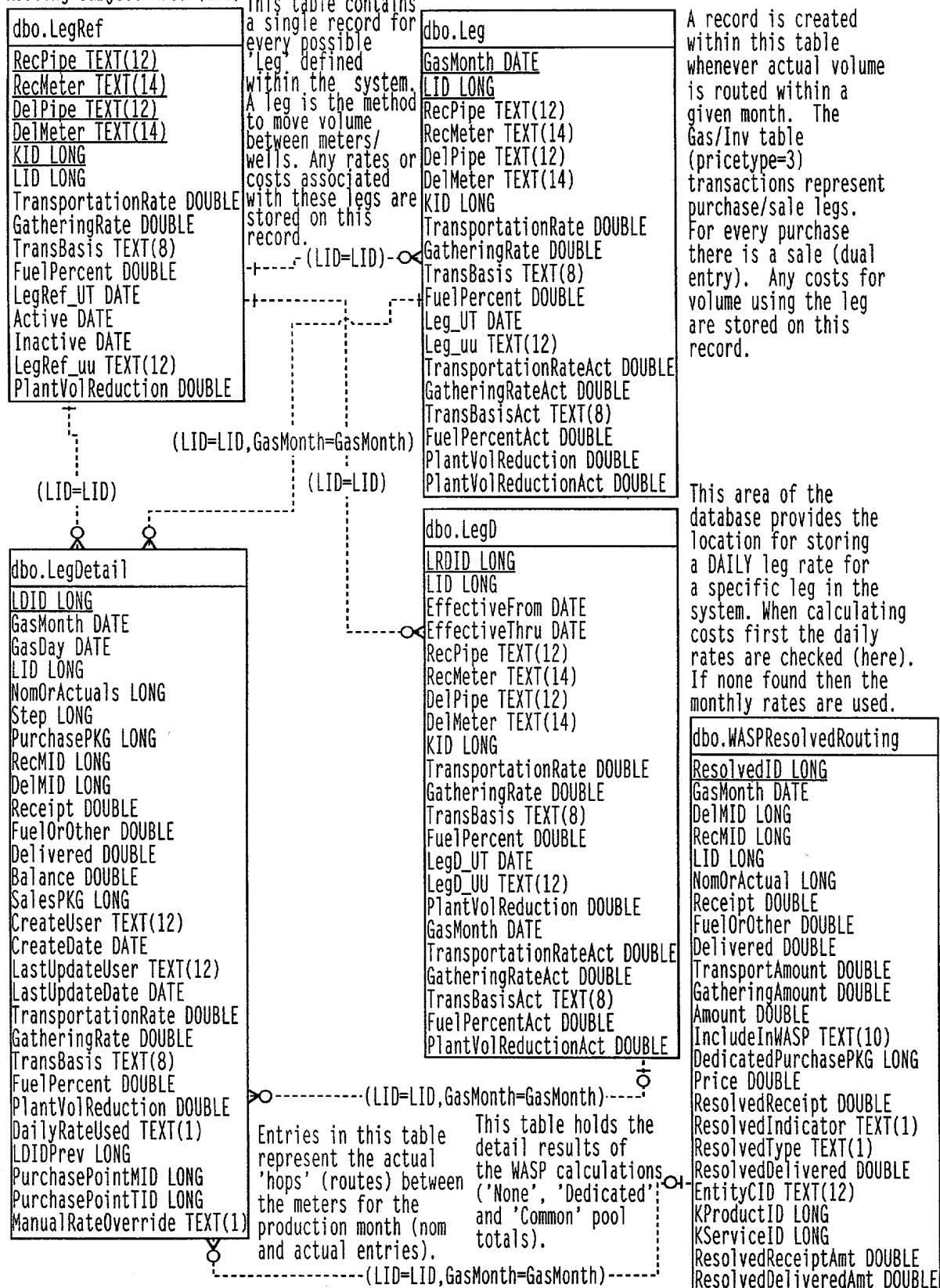


FIG. 3N

Security Subject Area (ERD)

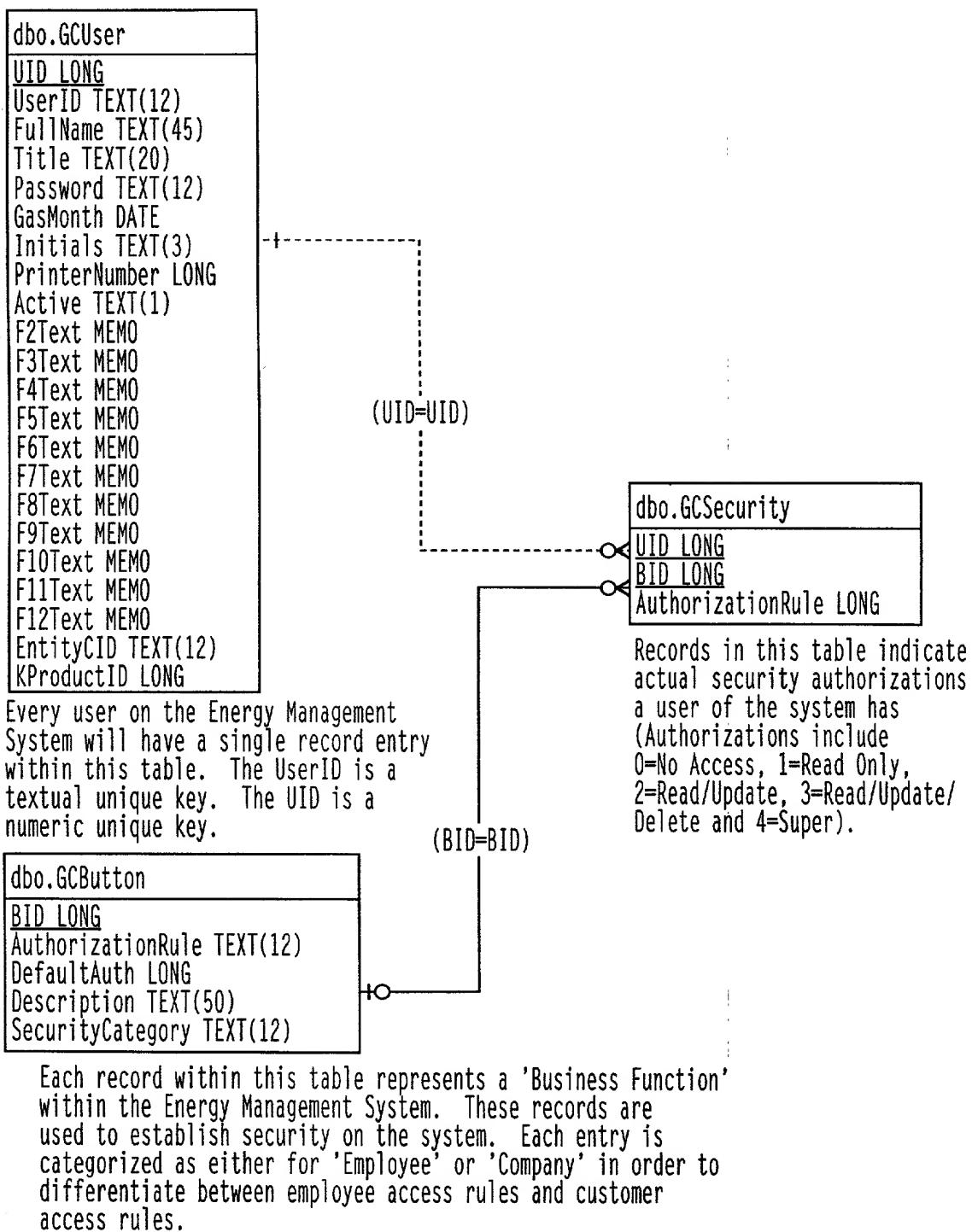


FIG. 4A

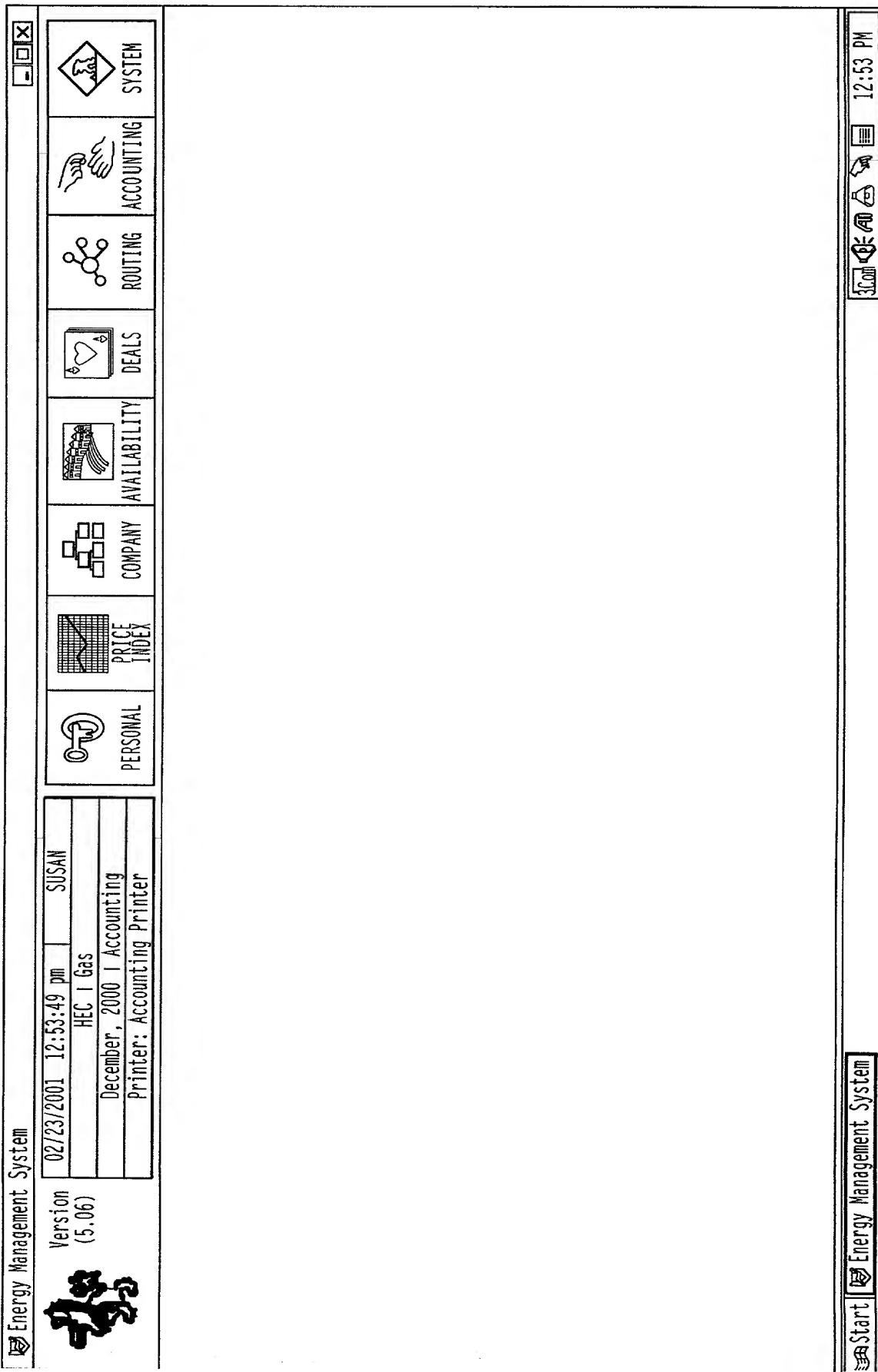


FIG. 4B

Energy Management System

Version (5.06) SUSAN

02/23/2001	12:54:37 pm	SUSAN
HEC Gas		
December, 2000		Accounting
Printer: Accounting Printer		

User Profile Detail - (Change)

General	F2 Key	F3 Key	F4 Key	F5 Key	F6 Key	F7 Key	F8 Key	F9 Key	◀	▶
ID:	SUSAN									
Full Name:	Susan Sims									
Title:	Dir. of Client Svcs									
Password:	*****									
Month:	December / 2000									
Entity:	HEC									
Product:	Gas									
<input checked="" type="checkbox"/> Active?										
Initials: SS										
Printer Number: Accounting Printer										
Internal User ID: 2448										

OK Help Cancel

Start Energy Management...

Filed: June 28, 2001

Inventor: Doug Morrison, III

Our Docket No.: 068.0002

Page 19 of 35

FIG. 4C

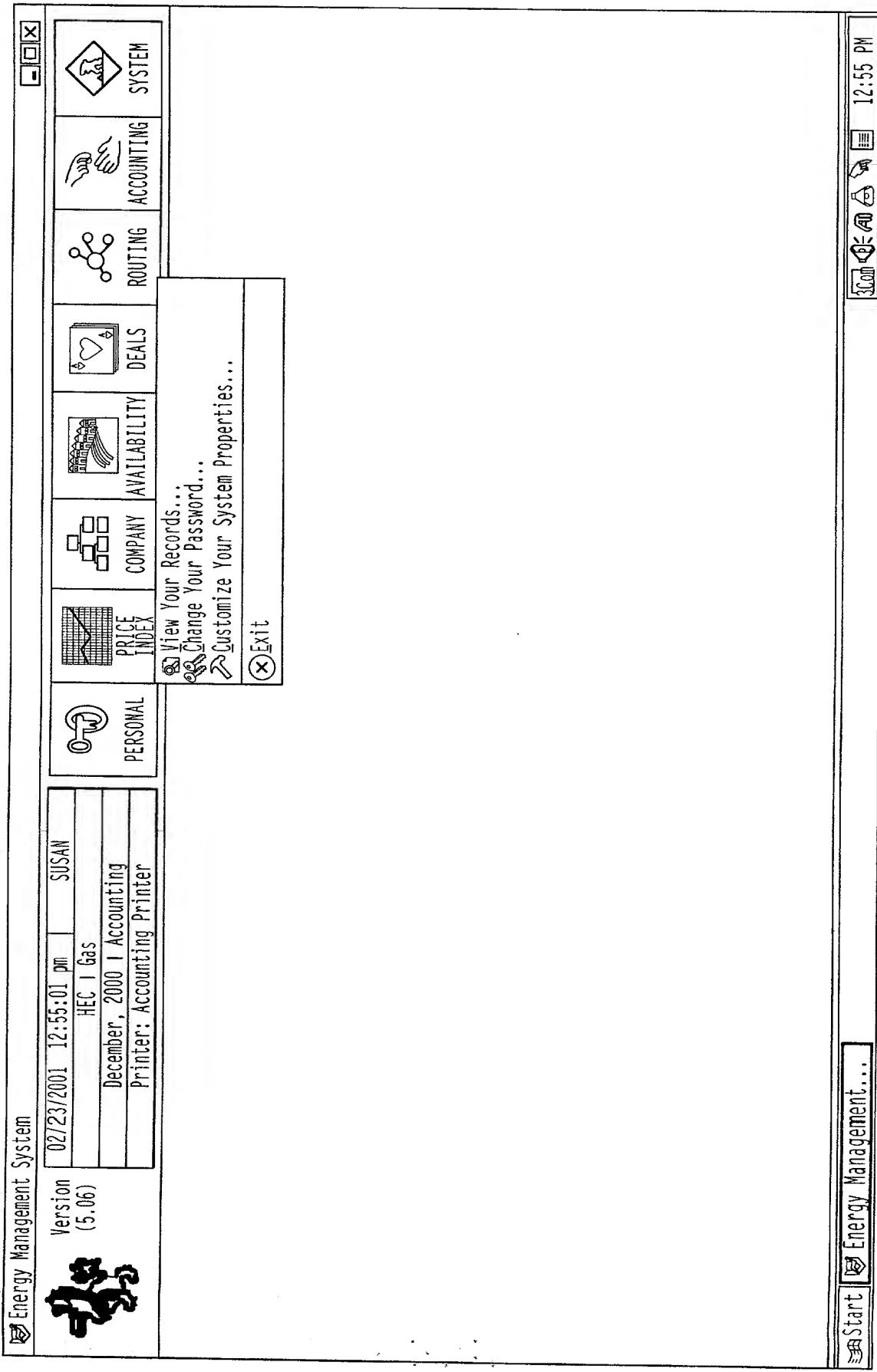


FIG. 4D

 Energy Management System

Report Viewer		Reports Submitted by You						Reports Submitted by the Schedule...					
Report Name	Submit Date	Completion Status	Rolloff Date			Output Format	Error Code						
Purchase and Sales By Company	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM			Acrobat	P1						
Deals By Business Partner	02/23/2001 12:48:52 PM	Completed	03/02/2001 12:48:52 PM			Acrobat	P1						
Supply Volumes By Supplier	02/23/2001 10:56:26 AM	Completed	03/02/2001 10:56:26 AM			Acrobat	P1						
Actualization Progress	02/23/2001 10:02:18 AM	Completed	03/02/2001 10:02:18 AM			Acrobat	P1						
Vouchers (DRAFT)	02/20/2001 03:19:53 PM	Completed	02/27/2001 03:19:53 PM			Acrobat	P1						
Vouchers (DRAFT)	02/20/2001 03:19:28 PM	Completed	02/27/2001 03:19:28 PM			Acrobat	P1						
Margin Report (By WASP pool)	02/19/2001 01:01:56 PM	Completed	02/26/2001 01:01:56 PM			Acrobat	P1						
Margin Report (By Pipe Field)	02/19/2001 01:01:46 PM	Completed	02/26/2001 01:01:46 PM			Acrobat	P1						
Sales Deals By Pipe	02/19/2001 10:30:35 AM	Completed	02/26/2001 10:30:35 AM			Acrobat	P1						
Deals By Business Partner	02/17/2001 02:57:05 PM	Completed	02/24/2001 02:57:05 PM			Acrobat	P1						
Sales Deals By Pipe	02/17/2001 02:53:15 PM	Completed	02/24/2001 02:53:15 PM			Acrobat	P1						
Remittance DRAFT Detail	02/17/2001 02:52:40 PM	Completed	02/24/2001 02:52:40 PM			Acrobat	P1						
Actualization Progress	02/17/2001 01:13:53 PM	Completed	02/24/2001 01:13:53 PM			Acrobat	P1						
WASP Deal Detail	02/17/2001 12:32:46 PM	Completed	02/24/2001 12:32:46 PM			Acrobat	P1						
Routing Details (Ultimate Sale)	02/17/2001 12:25:32 PM	Completed	02/24/2001 12:25:32 PM			Acrobat	P1						
WASP Deal Detail	02/17/2001 11:38:21 AM	Completed	02/24/2001 11:38:21 AM			Acrobat	P1						
WASP Deal Detail	02/17/2001 11:38:11 AM	Completed	02/24/2001 11:38:11 AM			Acrobat	P1						
WASP Deal Detail	02/17/2001 11:28:50 AM	Completed	02/24/2001 11:28:50 AM			Acrobat	P1						

Records: 18

Refresh More Lookup...

Get Acrobat Reader

Submit Date (DESC) Submit Date (ASC)

Auto Refresh? (this will refresh screen automatically every 10 seconds)

Start

Energy Management...

EIGI 4G

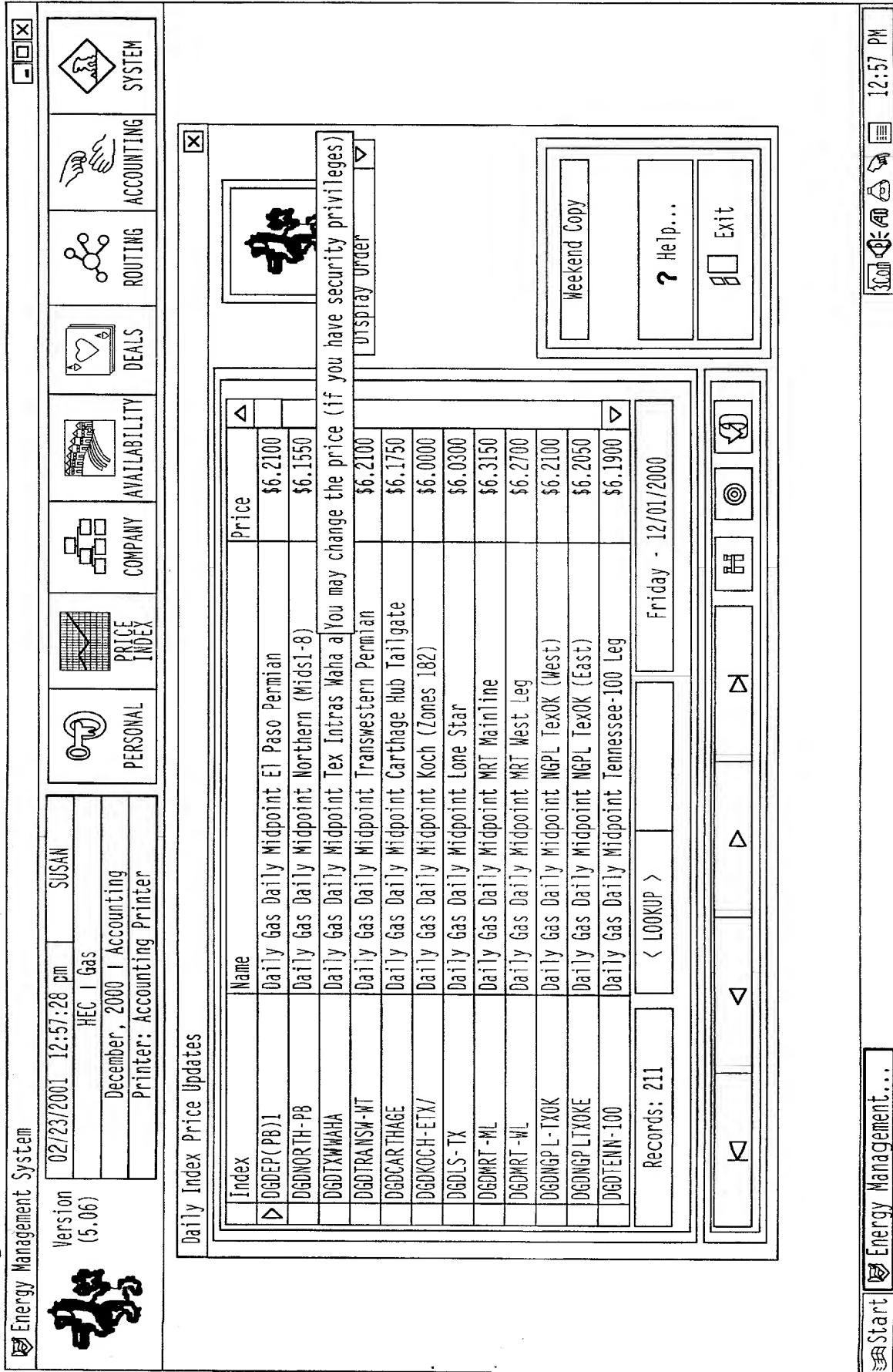


FIG. 4E

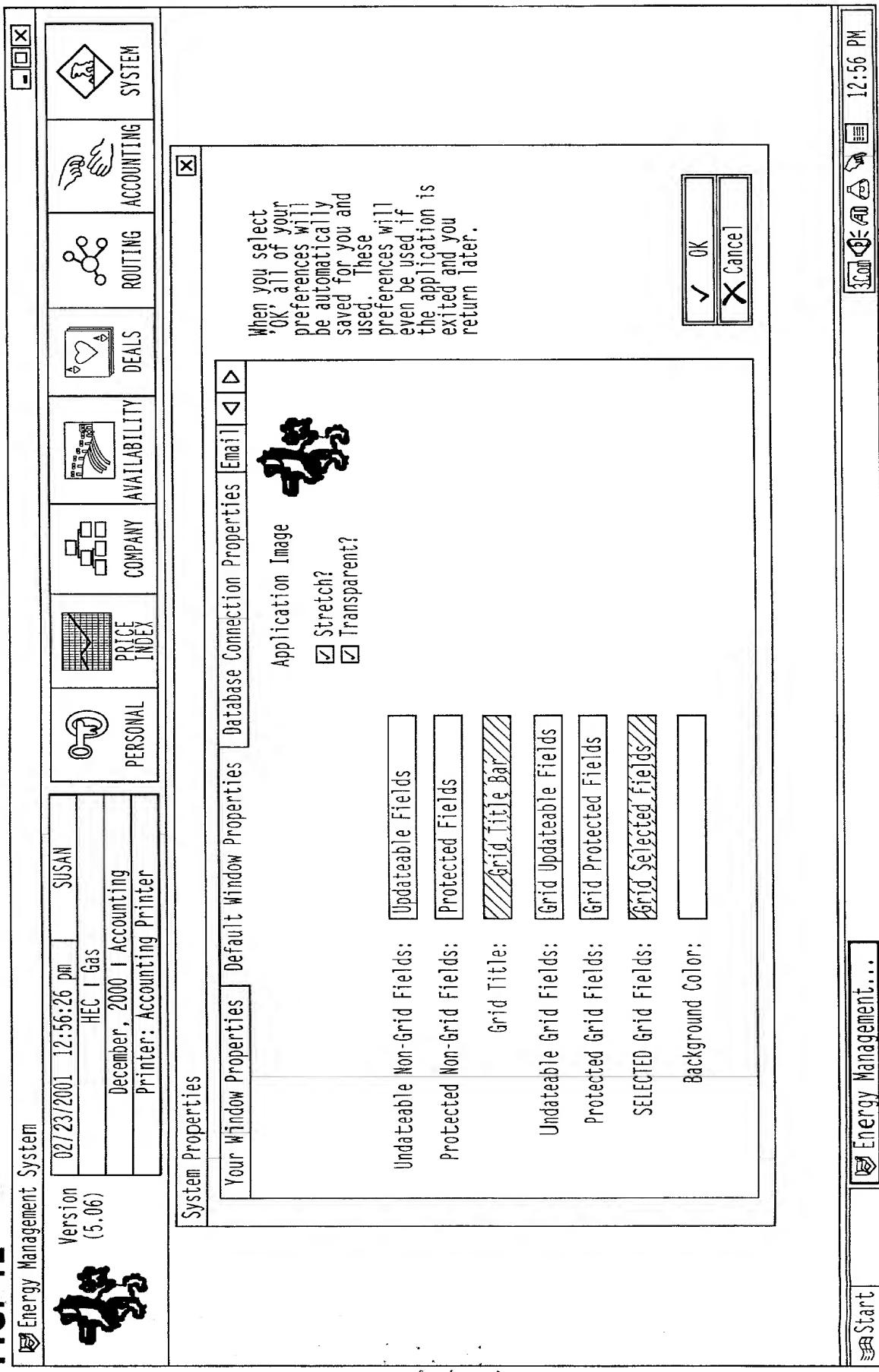


FIG. 4F

Energy Management System

 Version (5.06)	02/23/2001 12:56:42 pm	SUSAN
 HEC 1 Gas		
 December, 2000 Accounting		
Printer: Accounting Printer		
 PERSONAL	 PRICE INDEX	 COMPANY
 AVAILABILITY	 DEALS	 ROUTING
 ACCOUNTING	 SYSTEM	
\$ Enter or Update Daily/Monthly Prices...  View (Graph) Price Index Information...		
 Add or Update Index Areas...  Add or Update an Index...  Add or Update an Index Basket...		
 Add or Update Price Index Exceptions...		
 Price Index Reports		
 Start	 Energy Management...	 12:56 PM

FIG. 4H

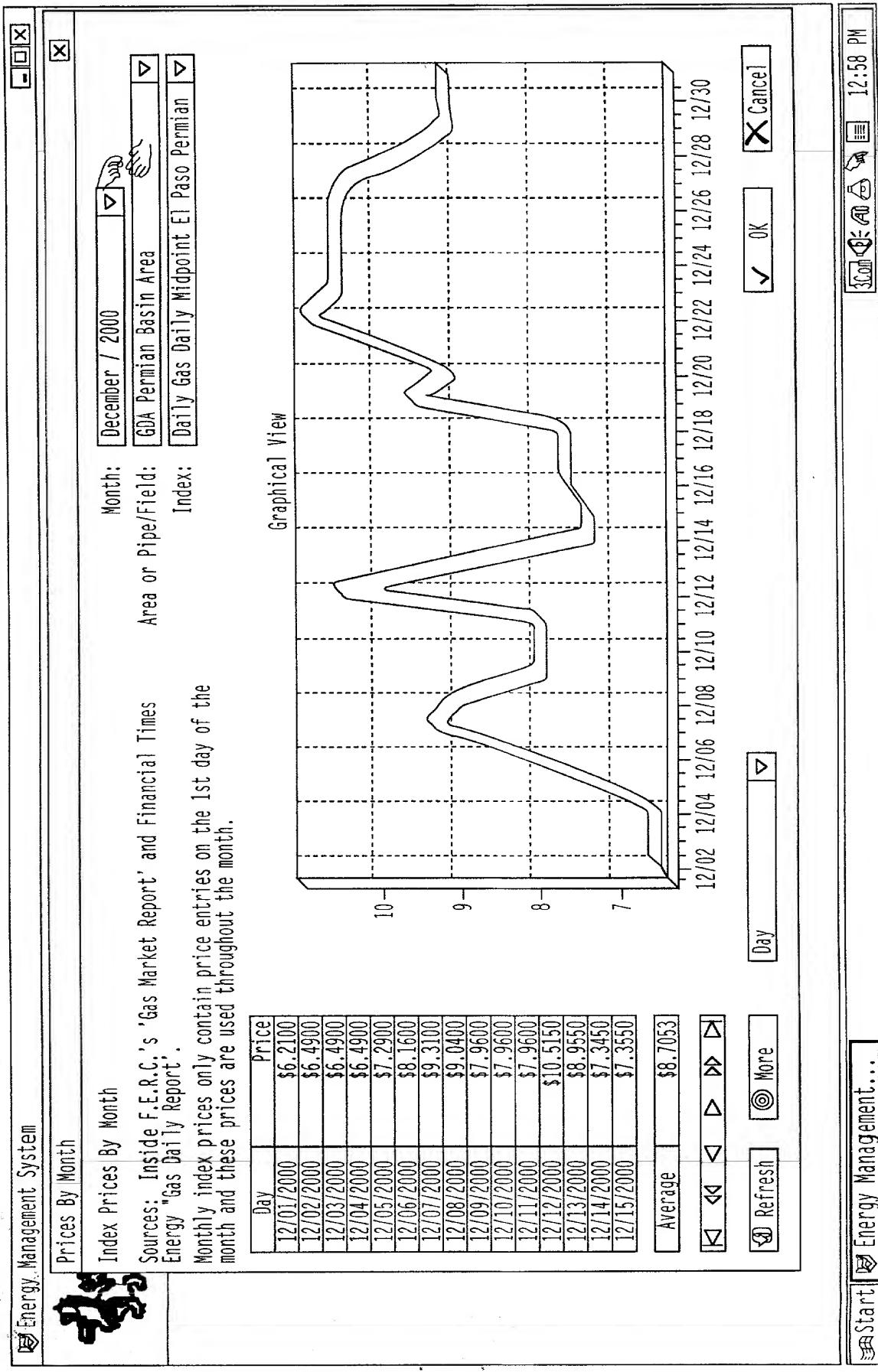


FIG. 4

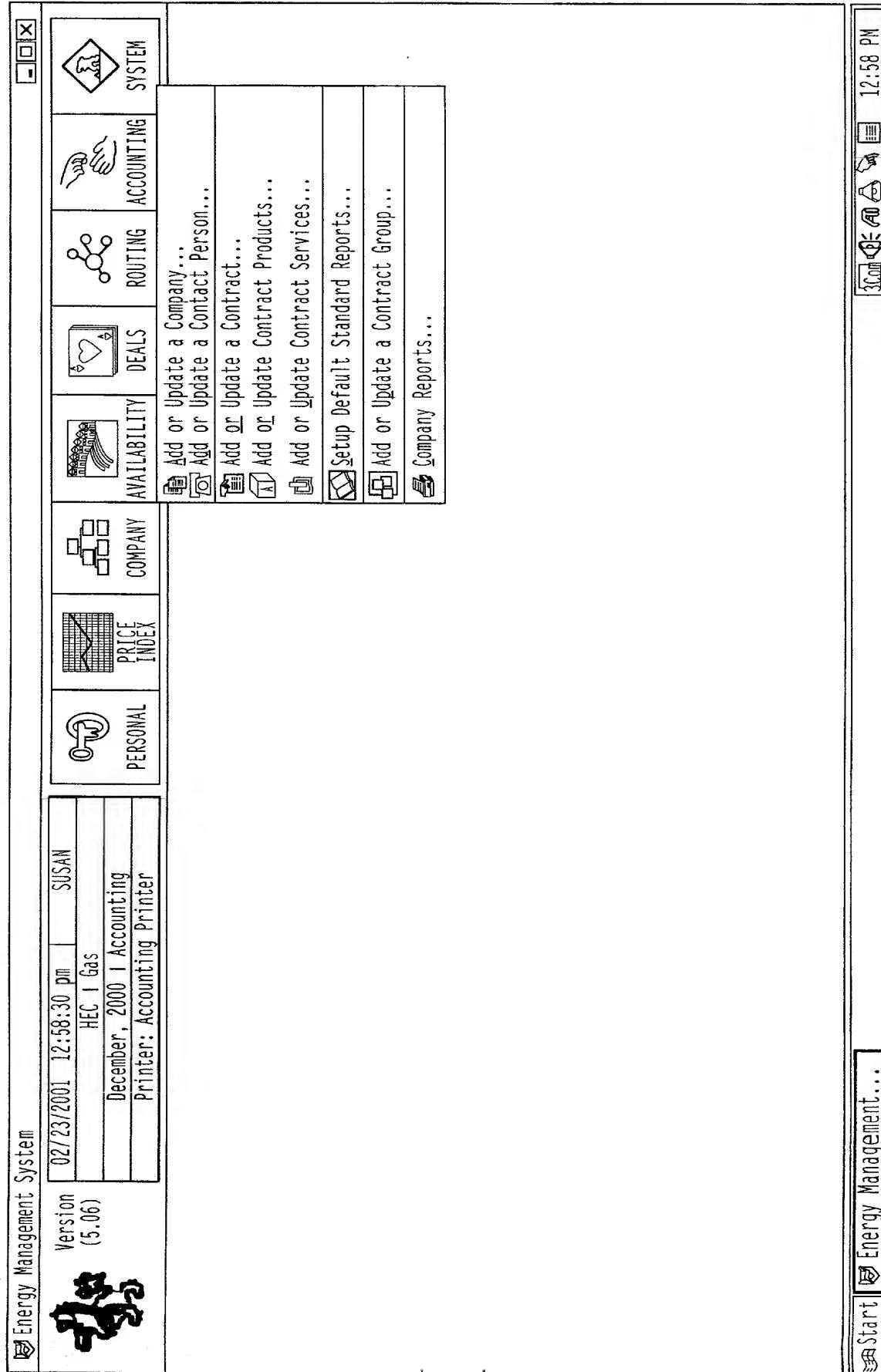


FIG. 4J

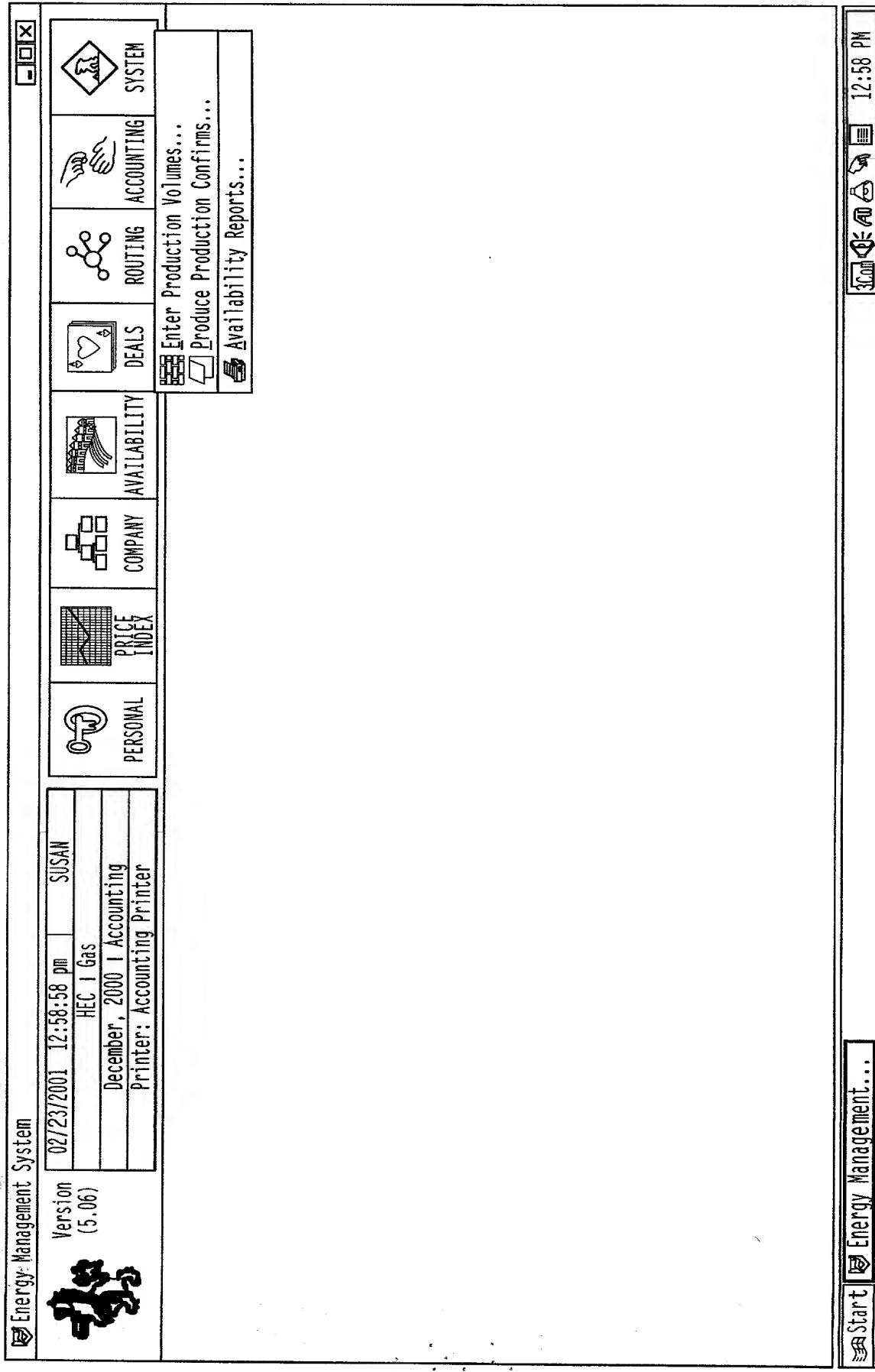


FIG. 4K

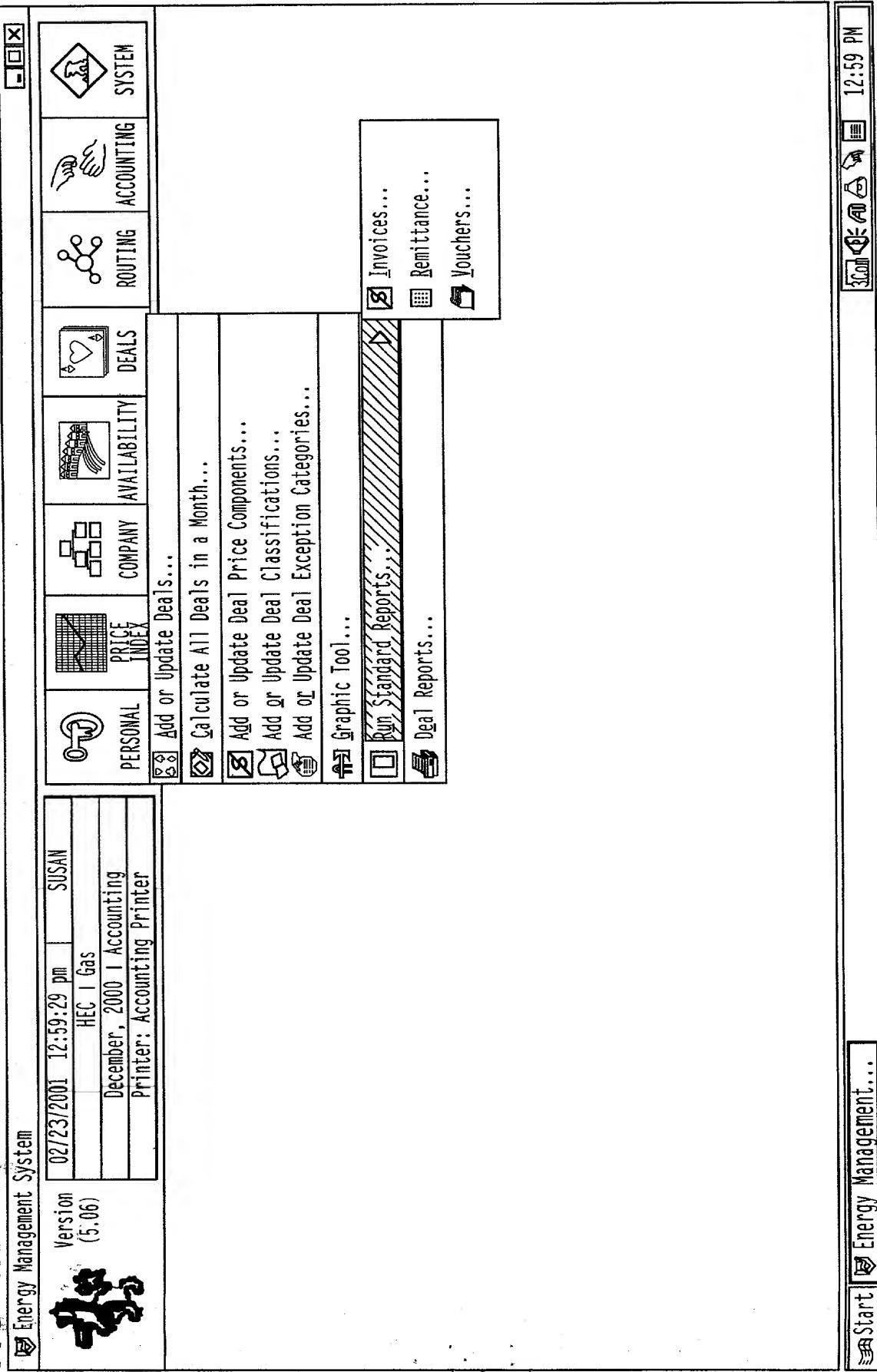


FIG. 4L

Energy Management System																													
 Version (5.06) 02/23/2001 01:01:10 PM SUSAN Product: Gas Service: Marketing Month: December / 2000 Status: (Accounting Phase) Start Date: 12/23/2000 Contract... 3TEC Energy Corporation 3TEC ENERGY Thru Date: 12/31/2000 3TEC OIL & GAS PURCHASE Status: Created Confirm Report																													
<input type="checkbox"/> Deal Details - (Change)																													
<table border="1"> <tr> <td>Deal ID: 66028</td> <td>Description: 12/23-31 3 TEC</td> </tr> <tr> <td>Product: Gas</td> <td>Service: Marketing</td> </tr> <tr> <td>Month: December / 2000</td> <td>Status: (Accounting Phase)</td> </tr> <tr> <td>Contract...</td> <td>3TEC ENERGY</td> </tr> <tr> <td>3TEC OIL & GAS PURCHASE</td> <td>Status: Created</td> </tr> </table>		Deal ID: 66028	Description: 12/23-31 3 TEC	Product: Gas	Service: Marketing	Month: December / 2000	Status: (Accounting Phase)	Contract...	3TEC ENERGY	3TEC OIL & GAS PURCHASE	Status: Created																		
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Product: Gas	Service: Marketing																												
Month: December / 2000	Status: (Accounting Phase)																												
Contract...	3TEC ENERGY																												
3TEC OIL & GAS PURCHASE	Status: Created																												
<table border="1"> <tr> <td>Rollover Rules</td> <td>Correspondence</td> <td>Ownership Interests</td> <td>Financial Overrides</td> </tr> <tr> <td>General</td> <td>Volumes</td> <td>Prices</td> <td>Calculation Results</td> </tr> <tr> <td>Their Contact...</td> <td colspan="3">Audit Information</td> </tr> <tr> <td>Our Contact...</td> <td colspan="3"> Janna Cahoun, 713-821-7107 Leslie Vandagriff, 214-954-1430 -griff@highlandenergy.com </td> </tr> <tr> <td>Description:</td> <td colspan="3">\$5.89*MANUAL NB.99</td> </tr> <tr> <td>Comments:</td> <td colspan="3"></td> </tr> <tr> <td>Due:</td> <td colspan="3"></td> </tr> </table>		Rollover Rules	Correspondence	Ownership Interests	Financial Overrides	General	Volumes	Prices	Calculation Results	Their Contact...	Audit Information			Our Contact...	Janna Cahoun, 713-821-7107 Leslie Vandagriff, 214-954-1430 -griff@highlandenergy.com			Description:	\$5.89*MANUAL NB.99			Comments:				Due:			
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Their Contact...	Audit Information																												
Our Contact...	Janna Cahoun, 713-821-7107 Leslie Vandagriff, 214-954-1430 -griff@highlandenergy.com																												
Description:	\$5.89*MANUAL NB.99																												
Comments:																													
Due:																													
<input type="checkbox"/> Accounting Use Only? (ie. No Invoices or Remittance Reports) <input type="checkbox"/> Suppress Volume Calculations? <input type="checkbox"/> Park or Loan Deal?																													
<input checked="" type="checkbox"/> OK <input type="checkbox"/> Help <input checked="" type="checkbox"/> Cancel																													
 Start Energy Management....																													
1:01 PM																													

FIG. 4M

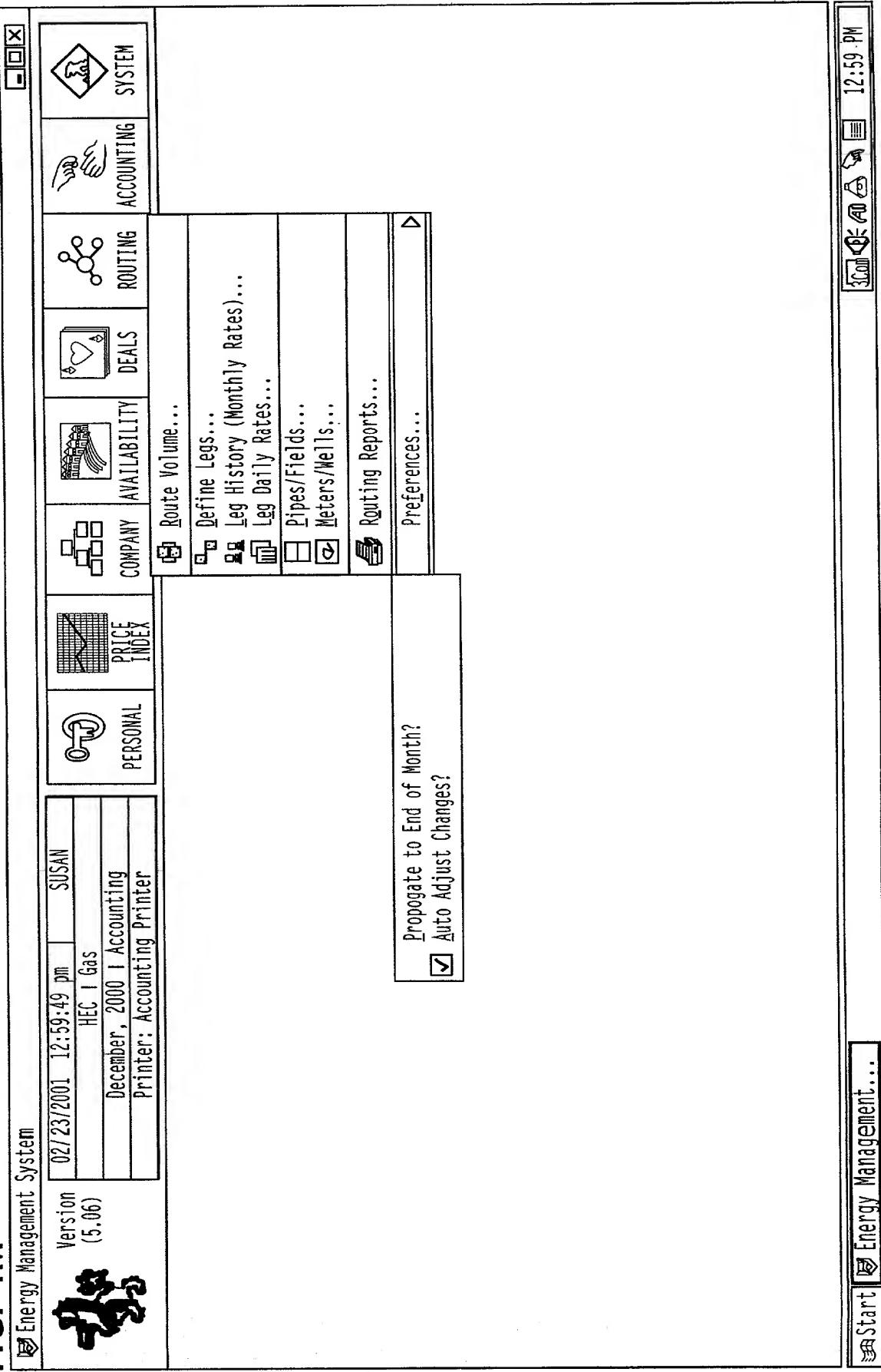
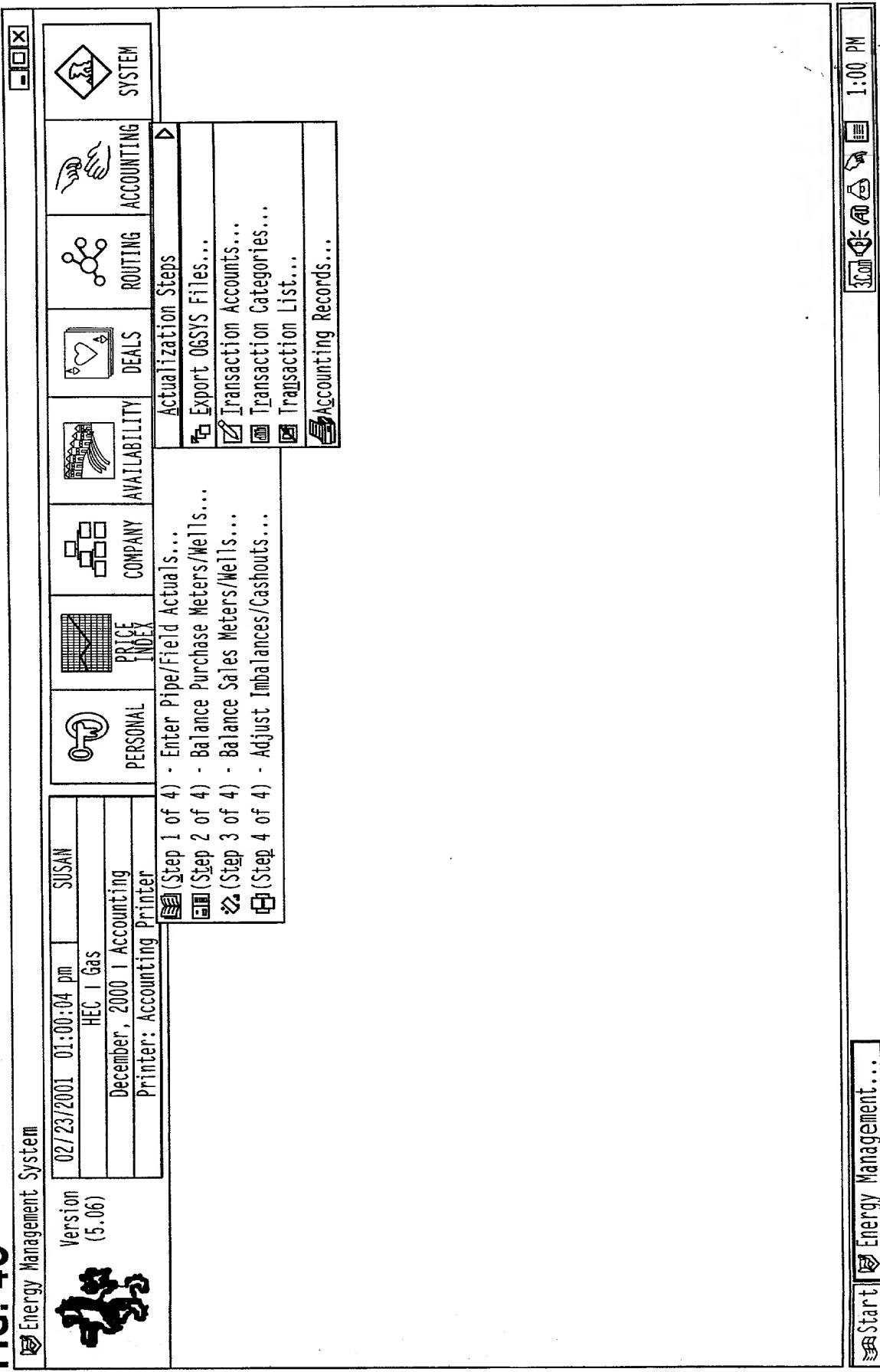


FIG. 4N

FIG. 40

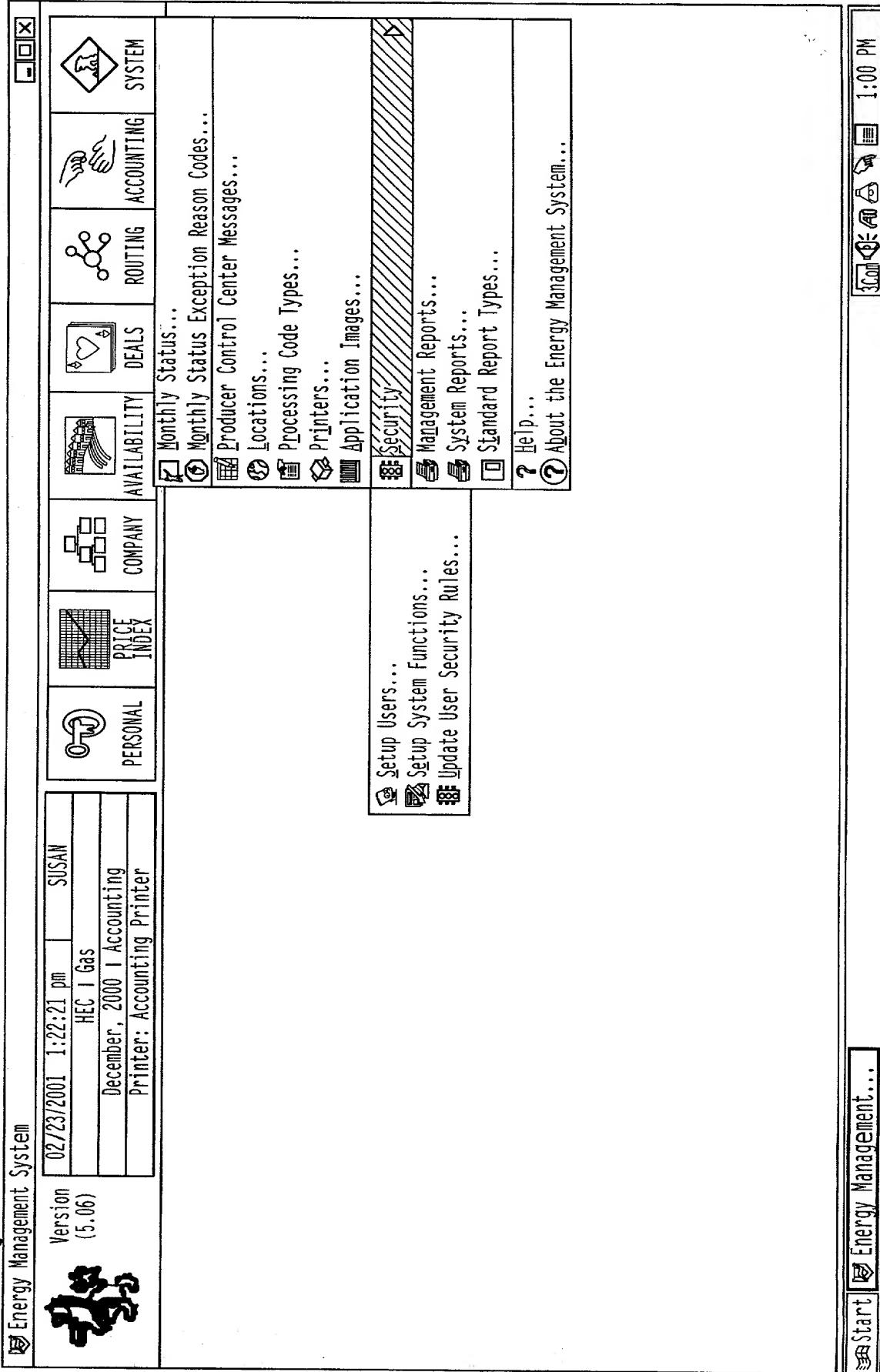


U.S. Application Serial No. 09/893,009
Filed: June 28, 2001
Inventor: Logan Morrissey, III in Easton, PA
Our Docket No.: 066-0002

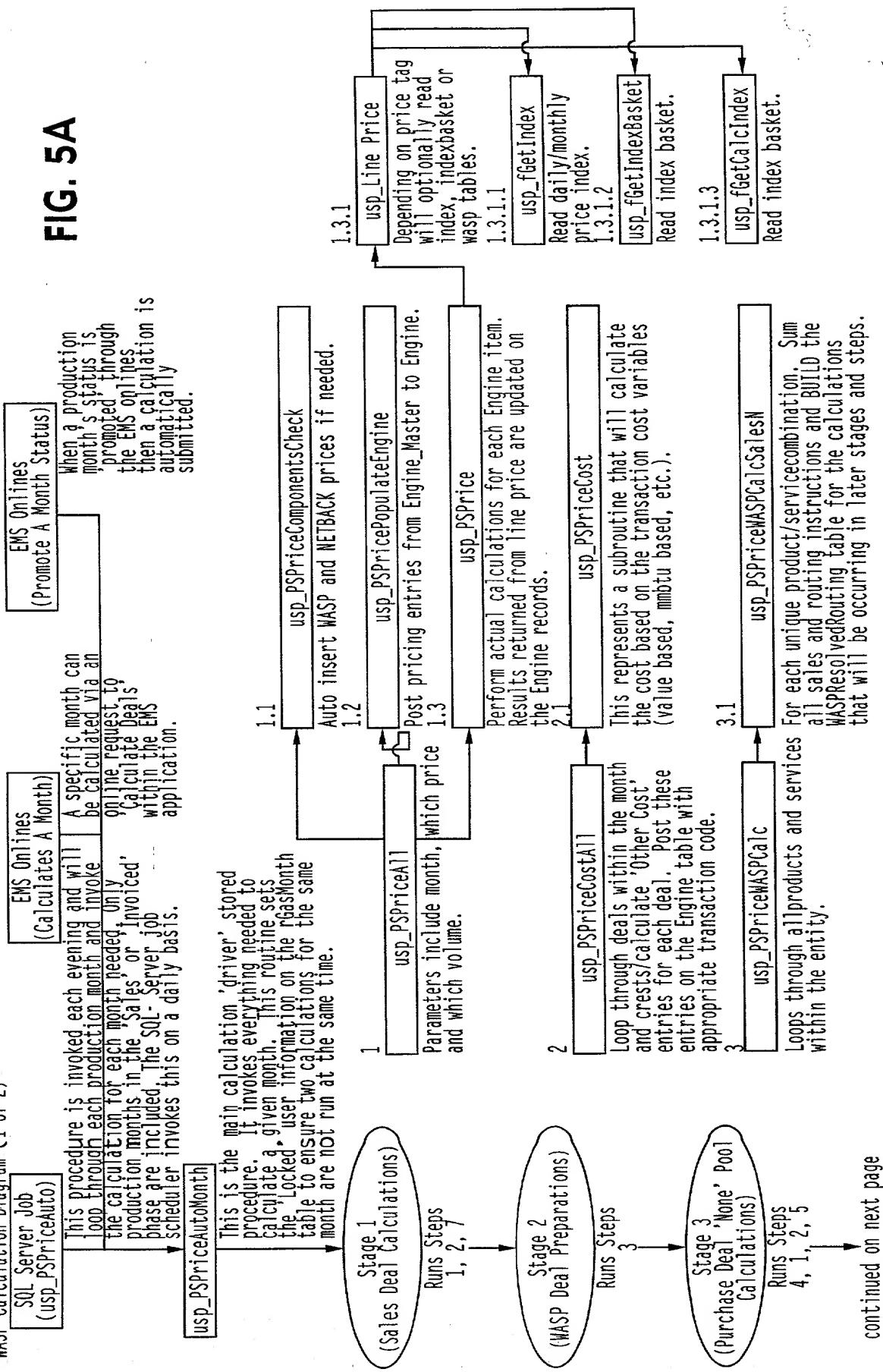
FIG. 4P

Energy Management System																																																																																																																									
Enter Pipe/Field Actuals																																																																																																																									
Month: December / 2000 ▾		Volume Allocation																																																																																																																							
Type: Purchases ▾		<input checked="" type="radio"/> MMBTU	<input checked="" type="radio"/> Auto Allocate Volume																																																																																																																						
(Accounting Phase)		<input type="radio"/> MCF	<input type="radio"/> Use Volume Entered																																																																																																																						
Lookup By? —		<input type="radio"/> Pipe	<input type="radio"/> CFT	Vol: 0	Fctr: 1.000000																																																																																																																				
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<table border="1"> <thead> <tr> <th>Meter/Well</th> <th>Description</th> <th>Deal</th> <th>Act.?</th> <th>Actuals</th> <th>Company</th> </tr> </thead> <tbody> <tr> <td>△ 4012</td> <td>Paradis (ERACELAND)</td> <td>65105</td> <td><input checked="" type="checkbox"/></td> <td>59,751.00</td> <td>3TECEERC</td> </tr> <tr> <td>4039</td> <td>VALENTINE</td> <td>65220</td> <td><input checked="" type="checkbox"/></td> <td>4,214.00</td> <td>TOMBROWN</td> </tr> <tr> <td>4164</td> <td>WN267 A</td> <td>65050</td> <td><input checked="" type="checkbox"/></td> <td>41,083.00</td> <td>CHEFETAIN</td> </tr> <tr> <td>4164</td> <td>WN267 A</td> <td>65370</td> <td><input checked="" type="checkbox"/></td> <td>392,909.00</td> <td>CHEFETAIN</td> </tr> <tr> <td>P2046107</td> <td>Highland Mainline Pool</td> <td>64872</td> <td><input checked="" type="checkbox"/></td> <td>1,934.00</td> <td>HEC</td> </tr> <tr> <td>P3046107</td> <td>HIGHLAND ONSHORE</td> <td>64872</td> <td><input checked="" type="checkbox"/></td> <td>0.00</td> <td>HEC</td> </tr> <tr> <td>P3046107</td> <td>HIGHLAND ONSHORE</td> <td>65029</td> <td><input checked="" type="checkbox"/></td> <td>0.00</td> <td>AQUILANER</td> </tr> <tr> <td>P3046107</td> <td>HIGHLAND ONSHORE</td> <td>65753</td> <td><input checked="" type="checkbox"/></td> <td>30,000.00</td> <td>AQUILANER</td> </tr> <tr> <td>P3046107</td> <td>HIGHLAND ONSHORE</td> <td>65754</td> <td><input checked="" type="checkbox"/></td> <td>3,000.00</td> <td>AQUILANER</td> </tr> <tr> <td colspan="6">▼</td> </tr> <tr> <td colspan="6"> <input type="checkbox"/> Start <input type="checkbox"/> Help... <input type="checkbox"/> Exit </td> </tr> </tbody> </table>						Meter/Well	Description	Deal	Act.?	Actuals	Company	△ 4012	Paradis (ERACELAND)	65105	<input checked="" type="checkbox"/>	59,751.00	3TECEERC	4039	VALENTINE	65220	<input checked="" type="checkbox"/>	4,214.00	TOMBROWN	4164	WN267 A	65050	<input checked="" type="checkbox"/>	41,083.00	CHEFETAIN	4164	WN267 A	65370	<input checked="" type="checkbox"/>	392,909.00	CHEFETAIN	P2046107	Highland Mainline Pool	64872	<input checked="" type="checkbox"/>	1,934.00	HEC	P3046107	HIGHLAND ONSHORE	64872	<input checked="" type="checkbox"/>	0.00	HEC	P3046107	HIGHLAND ONSHORE	65029	<input checked="" type="checkbox"/>	0.00	AQUILANER	P3046107	HIGHLAND ONSHORE	65753	<input checked="" type="checkbox"/>	30,000.00	AQUILANER	P3046107	HIGHLAND ONSHORE	65754	<input checked="" type="checkbox"/>	3,000.00	AQUILANER	▼						<input type="checkbox"/> Start <input type="checkbox"/> Help... <input type="checkbox"/> Exit																																																	
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P3046107	HIGHLAND ONSHORE	65029	<input checked="" type="checkbox"/>	0.00	AQUILANER																																																																																																																				
P3046107	HIGHLAND ONSHORE	65753	<input checked="" type="checkbox"/>	30,000.00	AQUILANER																																																																																																																				
P3046107	HIGHLAND ONSHORE	65754	<input checked="" type="checkbox"/>	3,000.00	AQUILANER																																																																																																																				
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<table border="1"> <thead> <tr> <th>Meter/Well</th> <th>Deal</th> <th>Nom</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>Dec 01</td> <td>1.981.00</td> <td>1.941.00</td> <td></td> </tr> <tr> <td>Dec 02</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 03</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 04</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 05</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 06</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 07</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 08</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 09</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 10</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 11</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 12</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 13</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 14</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 15</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 16</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 17</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 18</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 19</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 20</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 21</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 22</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 23</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 24</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 25</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 26</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 27</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> <tr> <td>Dec 28</td> <td>1.981.00</td> <td>1.927.00</td> <td></td> </tr> </tbody> </table>						Meter/Well	Deal	Nom	Actual	Dec 01	1.981.00	1.941.00		Dec 02	1.981.00	1.927.00		Dec 03	1.981.00	1.927.00		Dec 04	1.981.00	1.927.00		Dec 05	1.981.00	1.927.00		Dec 06	1.981.00	1.927.00		Dec 07	1.981.00	1.927.00		Dec 08	1.981.00	1.927.00		Dec 09	1.981.00	1.927.00		Dec 10	1.981.00	1.927.00		Dec 11	1.981.00	1.927.00		Dec 12	1.981.00	1.927.00		Dec 13	1.981.00	1.927.00		Dec 14	1.981.00	1.927.00		Dec 15	1.981.00	1.927.00		Dec 16	1.981.00	1.927.00		Dec 17	1.981.00	1.927.00		Dec 18	1.981.00	1.927.00		Dec 19	1.981.00	1.927.00		Dec 20	1.981.00	1.927.00		Dec 21	1.981.00	1.927.00		Dec 22	1.981.00	1.927.00		Dec 23	1.981.00	1.927.00		Dec 24	1.981.00	1.927.00		Dec 25	1.981.00	1.927.00		Dec 26	1.981.00	1.927.00		Dec 27	1.981.00	1.927.00		Dec 28	1.981.00	1.927.00	
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FIG. 4Q



WASP Calculation Diagram (1 of 2)



WASP Calculation Diagram (2 of 2)

continued from previous page



FIG. 5B